

Directions (1-25): Find the approximate value of the following questions.

Q1. 180% of 25501 + 50% of 28999 = ?



- (a) 62400
- (b) 64000
- (c) 60400
- (d) 64200
- (e) 60600

Q2. $171.995 \times 14.995 \div 25 = ?$

- (a) 103
- (b) 115
- (c) 110
- (d) 125
- (e) 118

Q3. $175 \times 28 + 275 \times 27.98 = ?$

- (a) 11800
- (b) 12600
- (c) 12800
- (d) 11600
- (e) 16200

Q4. $324.995 \times 15.98 \div 4.002 + 36.88 = ?$

- (a) 1300
- (b) 1230
- (c) 1340
- (d) 1380
- (e) 1390

Q5. $1164 \times 128 \div 8.008 + 969.007 = ?$

- (a) 18800
- (b) 19393
- (c) 19593
- (d) 19200
- (e) 20293

Q6. $\sqrt{624.98} + \sqrt{729.25} = ?$

- (a) 58
- (b) 56
- (c) 52
- (d) 61
- (e) 62

**CAREER POWER**
AN IIT/IIM ALUMNI COMPANY

**सिंडिकेटबैंक**
Syndicate Bank
भारत सरकार का उपक्रम - A Govt. of India Undertaking

SYNDICATE PO 2018
SCALE-I

10 FULL LENGTH MOCKS

Bilingual

Q7. 69.008% of 699.98 + 32.99% of 399.999 = ?

- (a) 615
- (b) 645
- (c) 675
- (d) 715
- (e) 815

Q8. $(9321 + 5406 + 1001) \div (498 + 929 + 660) = ?$

- (a) 13.5
- (b) 4.5
- (c) 2.5
- (d) 7.5
- (e) 21.5

Q9. 63.5% of 8924.2 + ?% of 5324.4 = 6827.5862

- (a) 36
- (b) 52
- (c) 13
- (d) 21
- (e) 41

Q10. 67% of 801 - 231.17 = ? - 23% of 789

- (a) 490
- (b) 440
- (c) 540
- (d) 520
- (e) 590

Q11. $499.99 + 1999 \div 39.99 \times 50.01 = ?$

- (a) 3200
- (b) 2700
- (c) 3000
- (d) 2500
- (e) 2400

Q12. 73.99% of 1299 + 9.98% of 1899 = ?

- (a) 1250
- (b) 1230
- (c) 1150
- (d) 1180
- (e) 1200

Q13. 67% of 801 - 231.17 = ? - 23% of 789

- (a) 490
- (b) 440
- (c) 540
- (d) 520
- (e) 590

Q14. $(15.95)^{\frac{1}{4}} + (3.01)^3 - 111.99 \times 2.02 + (9.98)^2 = ?$

- (a) 95
- (b) -95
- (c) 105
- (d) -105
- (e) -115

Q15. 126.99% of 1539.98 + 5.5% of 149.99 + 103.98% of 7 = ?

- (a) 1860
- (b) 1970
- (c) 2080
- (d) 2150
- (e) 1055

Q16. 67.99% of 1401 - 13.99% of 1299 = ?

- (a) 700
- (b) 720
- (c) 770
- (d) 800
- (e) 740

Q17. 5466.97 - 3245.01 + 1122.99 = ? + 2309.99

- (a) 1130
- (b) 1000
- (c) 1100
- (d) 1035
- (e) 1060

Q18. $5998 \div 9.98 + 670.99 - 139.99 = ?$

- (a) 1080
- (b) 1280
- (c) 1180
- (d) 1130
- (e) 1230



SBI JUNIOR ASSOCIATES 2018
PRELIMS

With Video Solution

35 TOTAL TEST

- 20 FULL LENGTH MOCKS
- 15 PRACTICE SETS

Bilingual

Q19. $-(4.99)^3 + (29.98)^2 - (3.01)^4 = ?$

- (a) 554
- (b) 594
- (c) 624
- (d) 654
- (e) 694

Q20. $\sqrt{3135} \times \sqrt{577} \div \sqrt{255} = ? \div 8$

- (a) 620
- (b) 670
- (c) 770
- (d) 750
- (e) 700

Q21. $12.002 \times 15.005 - 8.895 \times 6.965 = ?$

- (a) 130
- (b) 117
- (c) 105
- (d) 110
- (e) 95

Q22. $105.1\% \text{ of } 8401.01 - \frac{3}{7}\% \text{ of } 5600.12 + 9.999 = ?$

- (a) 8880
- (b) 8080
- (c) 8850
- (d) 8760
- (e) 8806

Q23. $30.01^2 - 19.98^2 - ? = 21.97^2$

- (a) 49
- (b) 50
- (c) 30
- (d) 39
- (e) 16

Q24. $(4.989)^2 + (21.012)^3 + \sqrt{1090} = ?$

- (a) 9219
- (b) 9391
- (c) 9319
- (d) 9129
- (e) 9643

Q25. $\sqrt[3]{65} \times 23.93 - 31.04 = ?$

- (a) 98
- (b) 65
- (c) 102
- (d) 35
- (e) 79

Directions (26-50): Simplify the following problems.

Q26. $56\% \text{ of } 958 + 67\% \text{ of } 1008 = ?\% \text{ of } 2000$

- (a) 60.592
- (b) 47.622
- (c) 42.86
- (d) 91.455
- (e) 65.092

Q27. $\sqrt{5929} + \sqrt{8464} = (?)^2$

- (a) 11
- (b) 19
- (c) 13
- (d) 21
- (e) 23

Q28. $(47 \times 588) \div (28 \times 120) = ?$

- (a) 6.284
- (b) 7.625
- (c) 8.225
- (d) 8.285
- (e) 82.25

Q29. $\frac{5}{8} \text{ of } \frac{4}{9} \text{ of } \frac{3}{5} \text{ of } 222 = ?$

- (a) 42
- (b) 43
- (c) 39
- (d) 37
- (e) 47

Q30. $74156 - ? - 321 - 20 + 520 = 69894$

- (a) 3451
- (b) 4441
- (c) 5401
- (d) 4531
- (e) 4414

 Adda247

 **SBI CLERK 2018**
PRELIMS

MOCK TEST BOOKLETS

10 TEST BOOKLETS (PRINTED TEST)
BILINGUAL @ 299/-

Q31. $(21)^2 - 3717 \div 59 = ? \times 8$

- (a) 43.75
- (b) 42.25
- (c) 45.75
- (d) 47.25
- (e) 44.25

Q32. $2\frac{1}{2} - 1\frac{1}{16} = ? + 1\frac{1}{32} - 1\frac{9}{64}$

- (a) $2\frac{9}{32}$
- (b) $1\frac{9}{64}$
- (c) $2\frac{5}{32}$
- (d) $1\frac{11}{64}$
- (e) $1\frac{35}{64}$

Q33. $0.008 \times 0.01 \times 0.0072 \div (0.12 \times 0.0004) = ?$

- (a) 1.2
- (b) 1.02
- (c) 0.12
- (d) 0.012
- (e) 0.0012

Q34. $8\frac{2}{7}$ of $[4963 - 3395] + 265.75 = ? + 2455.6$

- (a) 10354.15
- (b) 10578.15
- (c) 10802.15
- (d) 11250.15
- (e) 10280.15

Q35. $(1.06 + 0.04)^2 - ? = 4 \times 1.06 \times 0.04$

- (a) 1.0402
- (b) 1.4
- (c) 1.5
- (d) 10.404
- (e) 1.0404

Q36. $(5568 \div 87)^{1/3} + (72 \div 2)^{1/2} = (?)^{1/2}$

- (a) 256
- (b) 81
- (c) 121
- (d) 100
- (e) 144

Q37. $\sqrt{13^2 + 28 \div 4 - (3)^3 + 107} = (?)^2$ 

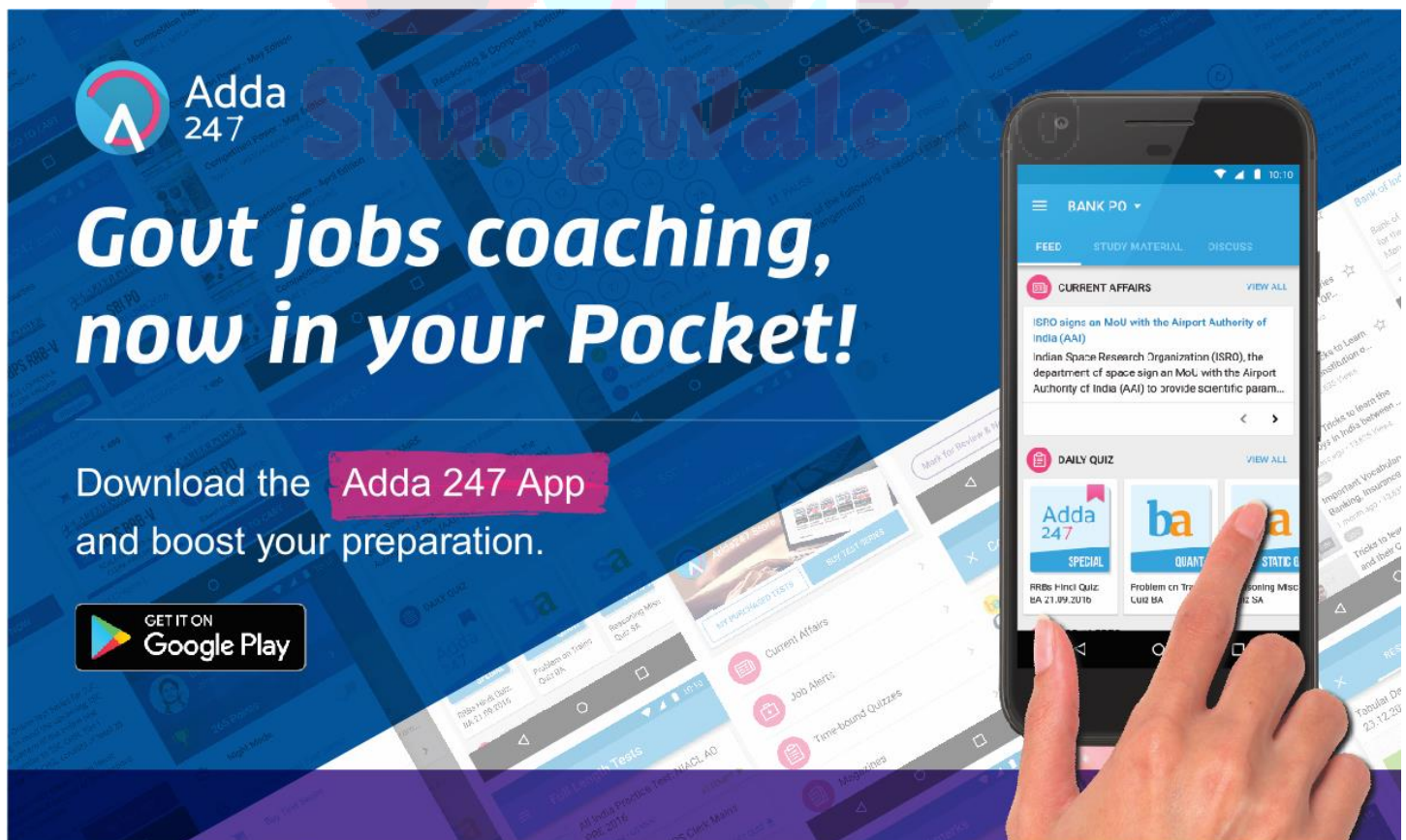
- (a) 2
- (b) 16
- (c) 256
- (d) 4
- (e) $(256)^2$

Q38. $(0.49)^4 \times (0.343)^4 \div (0.2401)^4 = (70 \div 100)^? + 3$

- (a) 3
- (b) 1
- (c) 4
- (d) 7
- (e) 2

Q39. $45\% \text{ of } \sqrt{2025} \div 0.01 = (?)^2 \div 25$

- (a) 3
- (b) 81^2
- (c) 225
- (d) 9
- (e) 12



Adda 247

Govt jobs coaching, now in your Pocket!

Download the **Adda 247 App** and boost your preparation.

GET IT ON **Google Play**

The advertisement shows a hand interacting with a smartphone displaying the Adda247 app interface. The app screen shows sections for 'BANK PO', 'CURRENT AFFAIRS', and 'DAILY QUIZ'. The background is a collage of various app screens and study materials.

Q40. $18.5 \times 21.4 \times ? = 6255.22$

- (a) 15.8
- (b) 14.6
- (c) 17.4
- (d) 17.2
- (e) 16.4

Q41. $2\frac{3}{4} \div 3\frac{3}{4} \times \frac{125}{16} \times 256 = ?$

- (a) $1466\frac{2}{3}$
- (b) $1571\frac{2}{3}$
- (c) 1509
- (d) $373\frac{5}{11}$
- (e) 1511

Q42. $9999 \div 99 \times 73 + 251 = ?$

- (a) 6578
- (b) 8264
- (c) 7624
- (d) 5024
- (e) 6724

Q43. $\frac{(0.7)^4 - (0.5)^4}{(0.7)^3 - (0.5)^3} = ?$

- (a) $\frac{713}{653}$
- (b) $\frac{65}{71}$
- (c) 121
- (d) $\frac{851}{744}$
- (e) $\frac{444}{545}$

Q44. $36\% \text{ of } 545 + 32\% \text{ of } 215 - 47\% \text{ of } 1300 = ?$

- (a) 643
- (b) 346
- (c) -411
- (d) -346
- (e) 436

Q45. $\sqrt{1225} \div \sqrt[3]{343} \times 45\% \text{ of } 760 = ?$

- (a) 1170
- (b) 1730
- (c) 1510
- (d) 1710
- (e) 1150



CANARA BANK PO 2018

SCALE-I

10 FULL LENGTH MOCKS

Bilingual

Q46. $\sqrt{1225} \div \sqrt[3]{343} \times 45\% \text{ of } 760 = ?$

- (a) 1170
- (b) 1710
- (c) 1510
- (d) 1700
- (e) 1720

Q47. $175\% \text{ of } 460 + 110\% \text{ of } 170 + 2^? = 1000$

- (a) 3
- (b) 4
- (c) 5
- (d) 2
- (e) 1

Q48. $18^{7.9} \times 3^{0.1} \times 6^{0.1} \div (3^4 \times 6^4) = 18^?$

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) 5

Q49. $3\frac{1}{7} + 2\frac{3}{5} + 7\frac{1}{5} - 5\frac{3}{7} - \frac{18}{35} = \frac{35}{?}$

- (a) 3
- (b) 5
- (c) 7
- (d) 9
- (e) 11

Q50. $36\% \text{ of } 245 - 40\% \text{ of } 10 = 10 - ?$

- (a) 84.2
- (b) 6.8
- (c) 74.2
- (d) - 75.6
- (e) - 74.2

Directions (51 -75): Two equations I and II are given below. You have to solve these equations and give answer

- (a) if $x < y$
- (b) if $x > y$
- (c) if $x \leq y$
- (d) if $x \geq y$
- (e) if $x = y$ or no relation can be established

Q51. I. $2x^2 + 11x + 14 = 0$

II. $4y^2 + 12y + 9 = 0$

Q52. I. $x^2 - 4 = 0$

II. $y^2 + 6y + 9 = 0$

Q53. I. $x^2 - 7x + 12 = 0$

II. $y^2 + y - 12 = 0$

Q54. I. $x^2 = 729$

II. $y = \sqrt{529}$

Q55. I. $x^4 - 227 = 398$

II. $y^2 + 321 = 346$

Q56. I. $9x^2 = 1$

II. $4y^2 + 11y - 3 = 0$

Q57. I. $x^2 - 5 = 0$

II. $4y^2 - 24y + 35 = 0$

Q58. I. $x^2 - 5x - 14 = 0$

II. $y^2 + 7y + 10 = 0$

Q59. I. $5x + 7y = -43$

II. $9x - 17y = 41$

Q60. I. $2x^2 - (4 + \sqrt{13})x + 2\sqrt{13} = 0$

II. $10y^2 - (18 + 5\sqrt{13})y + 9\sqrt{13} = 0$

Q61. I. $3x^2 + 10x + 8 = 0$

II. $3y^2 + 7y + 4 = 0$

Q62. I. $2x^2 + 21x + 10 = 0$

II. $3y^2 + 13y + 14 = 0$

Q63. I. $x^2 + x - 12 = 0$

II. $y^2 + 2y - 8 = 0$

Q64. I. $4x^2 - 13x + 9 = 0$

II. $3y^2 - 14y + 16 = 0$

Q65. I. $8x^2 + 18x + 9 = 0$

II. $4y^2 + 19y + 21 = 0$

Q66. I. $3x^2 + 16x + 21 = 0$

II. $6y^2 + 17y + 12 = 0$



SBI JUNIOR ASSOCIATES 2018 COMBO

With Video Solution

65 TOTAL TEST

• 30 FULL LENGTH MOCKS

• 35 PRACTICE SETS

Bilingual

Q67. I. $16x^2 + 20x + 6 = 0$

II. $10y^2 + 38y + 24 = 0$

Q68. I. $8x^2 + 6x = 5$

II. $12y^2 - 22y + 8 = 0$

Q69. I. $17x^2 + 48x = 9$

II. $13y^2 = 32y - 12$

Q70. I. $8x^2 + 26x + 15 = 0$

II. $4y^2 + 24y + 35 = 0$

Q71. I. $6x^2 + 19x + 15 = 0$

II. $24y^2 + 11y + 1 = 0$

Q72. I. $2x^2 + 11x + 15 = 0$

II. $4y^2 + 22y + 24 = 0$

Q73. I. $2x^2 + 9x + 9 = 0$

II. $2y^2 + 17y + 36 = 0$

Q74. I. $5x^2 + 29x + 20 = 0$

II. $25y^2 + 25y + 6 = 0$

Q75. I. $3x^2 - 16x + 21 = 0$

II. $3y^2 - 28y + 65 = 0$

Directions (76-100): What will come in place of question mark (?) in the following number series?

Q76. 6, 9, 18, 45, 135, ?

- (a) 470
- (b) 472.5
- (c) 493.75
- (d) 476.5
- (e) 439

Q77. 66, 35, 72, 38, 78, ?

- (a) 39
- (b) 158
- (c) 37
- (d) 41
- (e) 40

Q78. 29, 33, 60, 76, 201, ?

- (a) 391
- (b) 139
- (c) 237
- (d) 211
- (e) 229

Q79. 5, 7.25, 13.5, 25.75, 46, ?

- (a) 70.25
- (b) 71.25
- (c) 73.25
- (d) 75.25
- (e) 76.25

Q80. 138, 269, 532, 1059, 2114, ?

- (a) 4405
- (b) 4025
- (c) 4252
- (d) 4225
- (e) 4325

Q81. 148, 152, 161, 177, ?, 238

- (a) 208
- (b) 214
- (c) 202
- (d) 198
- (e) 192

Q82. 339, 355, 323, 371, 307, ?

- (a) 407
- (b) 354
- (c) 328
- (d) 387
- (e) 388

Q83. 5, 14, 40, 117, 347, ?

- (a) 920
- (b) 745
- (c) 1124
- (d) 1036
- (e) 694



RRB 2018

ASSISTANT LOCO PILOT (ALP)
& TECHNICIANS

FIRST STAGE CBT / PRELIMS

TOTAL VACANCIES : 26502

20 FULL LENGTH MOCKS

Bilingual

Q84. 12, 24, 96, 576, ?, 46080

- (a) 3542
- (b) 3890
- (c) 4248
- (d) 4608
- (e) 3246

Q85. 156, 468, 780, ?, 1404, 1716

- (a) 1096
- (b) 1092
- (c) 1290
- (d) 9610
- (e) 1910

Q86. 948, 474, ?, 118.5, 59.25, 29.625

- (a) 221
- (b) 190
- (c) 237
- (d) 189.06
- (e) 244

Q87. 374, 355, 317, ?, 184, 89

- (a) 260
- (b) 298
- (c) 279
- (d) 241
- (e) 441



GOVT JOB'S COACHING

NOW IN YOUR HANDS

Adda 247

Govt. Job In Your Pocket

QUIZZES REASONING
DAILY GK QUANT ANALYSIS
JOB ALERTS ENGLISH SESSION
DISC.FORUM THE ANALYZERS
HINDI & ENGLISH GEN. AWARENESS
STUDY ARTICLES LIVE DISCUSSION
CURRENT AFFAIRS CURRENT AFFAIRS QUIZ
LEARNING VIDEOS BANKING SESSIONS

Subscribe

Adda247 CHANNEL

FREE ONLINE COACHING

FROM STAR FACULTIES OF BANKERSADDA

Q88. 96, 94, 373, 3353, ?, 1341069

- (a) 83819
- (b) 53483
- (c) 63813
- (d) 53643
- (e) 56343

Q89. 1, 16, 81, 256, ?, 1296

- (a) 400
- (b) 625
- (c) 875
- (d) 1125
- (e) 512

Q90. 281, 141, 71, 36, 18.5, ?

- (a) 9.5
- (b) 9.25
- (c) 10.75
- (d) 10
- (e) 9.75

Q91. 2, 5, 23, 143, 1151, ?

- (a) 11520
- (b) 11519
- (c) 11517
- (d) 9215
- (e) 13823

Q92. 8, 9, 20, 63, ?, 1285, 7716

- (a) 384
- (b) 254
- (c) 256
- (d) 192
- (e) 320

Q93. 15, 34, 13, 30, 11, ?

- (a) 26
- (b) 15
- (c) 42
- (d) 29
- (e) 28

Q94. 6, 5, 7, 12.5, 27, ?

- (a) 83
- (b) 69.5
- (c) 56
- (d) 70.5
- (e) 96.5

Q95. 64, 77, 66, 73, 68, ?

- (a) 75
- (b) 72
- (c) 67
- (d) 69
- (e) 66

Q96. 25, 30, 49, 56, 81, 90, ?, 132

- (a) 90
- (b) 72
- (c) 99
- (d) 121
- (e) 132

Q97. 600, 75, 12.5, ?, 1.5625

- (a) 31.25
- (b) 3.125
- (c) 2.315
- (d) 32.15
- (e) 4.125

Q98. 6, 19, 71, 279, 1111, ?

- (a) 4439
- (b) 3439
- (c) 3454
- (d) 5439
- (e) 4349

Q99. 4, 18, 60, 186, 564, ?

- (a) 1581
- (b) 1686
- (c) 1498
- (d) 1698
- (e) 1689

Q100. 12, 13, 28, 87, 352, ?

- (a) 1665
- (b) 1765
- (c) 1656
- (d) 1675
- (e) 1865

**CAREER POWER**
AN IIT/IIM ALUMNI COMPANY

**सिंडिकेट बैंक**
Syndicate Bank
भारत सरकार का उपक्रम A Govt. of India Undertaking

SYNDICATE PO 2018
SCALE-I

10 FULL LENGTH MOCKS

Bilingual

Solutions

S1. Ans.(c)**Sol.**

$$? \approx 1.8 \times 25500 + \frac{50}{100} \times 29000 \approx 60,400$$

S2. Ans.(a)**Sol.**

$$? \approx 172 \times 15 \div 25 \\ \approx 103$$

S3. Ans.(b)**Sol.**

$$? \approx 175 \times 28 + 275 \times 28 \\ \approx 12,600$$

S4. Ans.(c)**Sol.**

$$? \approx 325 \times 16 \div 4 + 37 \\ \approx 1337 \approx 1340$$

S5. Ans.(c)**Sol.**

$$? \approx 1164 \times 128 \div 8 + 969 \\ \approx 19593$$

S6. Ans.(c)**Sol.**

$$? \approx 25 + 27 \\ \approx 52$$

S7. Ans.(a)**Sol.**

$$? \approx \frac{69}{100} \times 700 + \frac{33}{100} \times 400 \\ \approx 483 + 132 \\ \approx 615$$

S8. Ans.(d)**Sol.**

$$? \approx \frac{(9320 + 5400 + 1000)}{(500 + 930 + 660)} \approx 7.5$$



SYNDICATE PO 2018
SCALE-I

10 FULL LENGTH MOCKS

Bilingual

S9. Ans.(d)**Sol.**

$$\frac{64}{100} \times 8924 + \frac{?}{100} \times 5324 \approx 6828$$

$$\Rightarrow ? \approx 21$$

S10. Ans.(a)**Sol.**

$$? \approx \frac{67 \times 800}{100} - 231 + \frac{23 \times 790}{100}$$

$$\approx 536 - 231 + 181.7$$

$$\approx 490$$

S11. Ans.(c)**Sol.**

$$? \approx 500 + 50 \times 50$$

$$\approx 3000$$

S12. Ans.(c)**Sol.**

$$? \approx \frac{74 \times 1300}{100} + \frac{10 \times 1900}{100}$$

$$\approx 960 + 190$$

$$\approx 1150$$

S13. Ans.(a)**Sol.**

$$? \approx \frac{67 \times 800}{100} - 231 + \frac{23 \times 790}{100}$$

$$\approx 536 - 231 + 181.7$$

$$\approx 490$$

S14. Ans.(b)

$$\text{Sol. } 129 - 224 = -95$$

S15. Ans.(b)

$$\text{Sol. } ? \approx 1956 + 8.25 + 7.28 \approx 1970$$

S16. Ans.(c)**Sol.**

$$? \approx \frac{68}{100} \times 1400 - \frac{14}{100} \times 1300$$

$$\approx 770$$

S17. Ans.(d)**Sol.**

$$\begin{aligned} ? &\approx 5467 - 3245 + 1123 - 2310 \\ &\approx 1035 \end{aligned}$$

S18. Ans.(d)**Sol.**

$$\begin{aligned} ? &\approx \frac{6000}{10} + 671 - 140 \\ &\approx 1131 \\ &\approx 1130 \end{aligned}$$

S19. Ans.(e)**Sol.**

$$\begin{aligned} ? &\approx 900 - 81 - 125 \\ &\approx 694 \end{aligned}$$

S20. Ans.(b)**Sol.**

$$\begin{aligned} ? &\approx \frac{56 \times 24 \times 8}{16} \\ &\approx 672 \\ &\approx 670 \end{aligned}$$

S21. Ans.(b)**Sol.**

$$\begin{aligned} ? &\approx 12 \times 15 - 9 \times 7 \\ &\approx 180 - 63 = 117 \end{aligned}$$

S22. Ans.(e)**Sol.**

$$\begin{aligned} ? &\approx \frac{8400 \times 105}{100} - 5600 \times \frac{3}{700} + 10 \\ &\approx 8820 - 24 + 10 = 8806 \end{aligned}$$

S23. Ans.(e)**Sol.**

$$\begin{aligned} &\approx 30^2 - 20^2 - ? = 22^2 \\ \Rightarrow &900 - 400 - ? = 484 \\ \Rightarrow &500 - ? = 484 \\ \Rightarrow &? = 500 - 484 = 16 \end{aligned}$$



SBI CLERK 2018
PRELIMS

MOCK TEST BOOKLETS

10 TEST BOOKLETS (PRINTED TEST)
BILINGUAL @ 299/-

S24. Ans.(c)**Sol.**

$$\begin{aligned} ? &\approx (5)^2 + (21)^3 + \sqrt{1089} \\ &\approx 25 + 9261 + 33 \approx 9319 \end{aligned}$$

S25. Ans.(b)**Sol.**

$$\begin{aligned} ? &= \sqrt[3]{65} \times 23.93 - 31.04 \\ &\approx \sqrt[3]{64} \times 24 - 31 \\ &\approx 4 \times 24 - 31 \approx 96 - 31 \approx 65 \end{aligned}$$

S26. Ans.(a)**Sol.**

$$\begin{aligned} \frac{56}{100} \times 958 + \frac{67}{100} \times 1008 &= ? \times 20 \\ \Rightarrow ? &= 60.592 \end{aligned}$$

S27. Ans.(c)**Sol.**

$$\begin{aligned} (?)^2 &= 77 + 92 \\ &= 169 \\ \Rightarrow ? &= \pm 13 \end{aligned}$$

S28. Ans.(c)**Sol.**

$$\begin{aligned} ? &= \frac{47 \times 588}{28 \times 120} \\ &= 8.225 \end{aligned}$$

S29. Ans.(d)**Sol.**

$$\begin{aligned} ? &= \frac{5}{8} \times \frac{4}{9} \times \frac{3}{5} \times 222 \\ &= 37 \end{aligned}$$

S30. Ans.(b)**Sol.**

$$? = 4441$$

S31. Ans.(d)**Sol.**

$$\begin{aligned} 441 - 63 &= ? \times 8 \\ ? &= 47.25 \end{aligned}$$

S32. Ans.(e)**Sol.**

$$\frac{23}{16} = ? - \frac{7}{64}$$

$$? = \frac{23}{16} + \frac{7}{64} = \frac{92+7}{64}$$

$$? = \frac{99}{64} = 1\frac{35}{64}$$

S33. Ans.(d)**Sol.**

$$5.76 \times 10^{-7} \div (0.000048) = 0.012$$

S34. Ans.(c)**Sol.**

$$\left(\frac{58}{7} \times 1568\right) + 265.75 - 2455.6 = ?$$

$$? = 13257.75 - 2455.6$$

$$? = 10802.15$$

S35. Ans.(e)**Sol.**

$$(1.1)^2 - (4.24 \times 0.04) = ?$$

Or, $? = 1.0404$

S36. Ans.(d)**Sol.**

$$(?)^{\frac{1}{2}} = 4 + 6$$

$$= 10$$

$$? = 100$$

GOVT JOB'S COACHING



NOW IN YOUR HANDS



Adda247

Govt. Job In Your Pocket

QUIZZES

DAILY GK

JOB ALERTS

DISC.FORUM

HINDI & ENGLISH

STUDY ARTICLES

CURRENT AFFAIRS

LEARNING VIDEOS

REASONING

QUANT ANALYSIS

ENGLISH SESSION

THE ANALYZERS

GEN. AWARENESS

LIVE DISCUSSION

CURRENT AFFAIRS QUIZ

BANKING SESSIONS



FREE ONLINE COACHING




FROM STAR FACULTIES OF BANKERSADDA

S37. Ans.(b)

$$\begin{aligned}\text{Sol. ?} &= \sqrt{169 + 7 - 27 + 107} \\ &= \sqrt{256} \\ &= 16\end{aligned}$$

S38. Ans.(b)

$$\begin{aligned}\text{Sol.} &= (0.7)^{?+3} = \frac{(0.7)^8 \times (0.7)^{12}}{(0.7)^{16}} \\ &= (0.7)^4 \\ \Rightarrow ? &= 4 - 3 \\ \Rightarrow ? &= 1\end{aligned}$$

S39. Ans.(c)

$$\begin{aligned}\text{Sol.} \\ \frac{(?)^2}{25} &= \frac{45}{100} \times 45 \times 100 \\ \Rightarrow ? &= \pm 225\end{aligned}$$

S40. Ans.(a)

$$\text{Sol. ?} = 15.8$$

S41. Ans.(a)

$$\begin{aligned}\text{Sol. ?} &= \frac{11}{4} \times \frac{4}{15} \times \frac{125}{16} \times 256 \\ &= \frac{4400}{3} \\ &= 1466\frac{2}{3}\end{aligned}$$

S42. Ans.(c)

$$\begin{aligned}\text{Sol. ?} &= 101 \times 73 + 251 \\ &= 7373 + 251 \\ &= 7624\end{aligned}$$

S43. Ans.(e)

$$\begin{aligned}\text{Sol.} \\ ? &= \frac{(0.7 - 0.5)(0.7 + 0.5)(0.7^2 + 0.5^2)}{(0.7 - 0.5)(0.7^2 + 0.7 \times 0.5 + 0.5^2)} \\ ? &= \frac{1.2 \times 0.74}{1.09} \\ ? &= \frac{88.8}{109} \\ ? &= \frac{444}{545}\end{aligned}$$



SBI JUNIOR ASSOCIATES 2018
PRELIMS

With Video Solution

35 TOTAL TEST

• 20 FULL LENGTH MOCKS

• 15 PRACTICE SETS

Bilingual

S44. Ans.(d)**Sol.**

$$\begin{aligned} ? &= \frac{36}{100} \times 545 + \frac{32}{100} \times 215 - \frac{47}{100} \times 1300 \\ &= 196.2 + 68.8 - 611 \\ &= -346 \end{aligned}$$

S45. Ans.(d)

$$\text{Sol. } ? = 35 \div 7 \times 342 = 1710$$

S46. Ans.(b)**Sol.**

$$35 \div 7 \times 342 = ?$$

$$\text{Or, } ? = 1710$$

S47. Ans.(a)**Sol.**

$$805 + 187 + 2^? = 1000$$

$$\text{Or, } 2^? = 8$$

$$\text{Or, } ? = 3$$

S48. Ans.(d)**Sol.**

$$18^? = 18^{7.9} \times 18^{0.1} \div 18^4$$

$$\text{Or, } ? = 7.9 + 0.1 - 4 = 4$$

S49. Ans.(b)**Sol.**

$$\frac{35}{?} = \frac{22}{7} + \frac{13}{5} + \frac{36}{5} - \frac{38}{7} - \frac{18}{35} = \frac{245}{35}$$

$$\text{Or, } ? = \frac{35 \times 35}{245} = 5$$

S50. Ans.(e)**Sol.**

$$88.2 - 4 = 10 - ?$$

$$\text{Or, } ? = -74.2$$

S51. Ans.(a)**Sol.**

$$\text{I. } 2x^2 + 4x + 7x + 14 = 0$$

$$2x(x + 2) + 7(x + 2) = 0$$

$$x = -2, -3.5$$

$$x < y$$

$$\text{II. } (2y + 3)^2 = 0$$

$$y = -1.5, -1.5$$

S52. Ans.(b)**Sol.**

I. $x = \pm 2$

II. $y^2 + 3y + 3y + 9 = 0$

$y = -3, -3$

$x > y$

S53. Ans.(d)**Sol.**

I. $x^2 - 3x - 4x + 12 = 0$

$x(x - 3) - 4(x - 3) = 0$

$x = 3, 4$

II. $y^2 + 4y - 3y - 12 = 0$

$y(y + 4) - 3(y + 4) = 0$

$y = 3, -4$

$x \geq y$

S54. Ans.(e)**Sol.**

I. $x = \pm 27$

II. $y = 23$

 $\therefore$ No relation**S55. Ans.(e)****Sol.**

I. $x^4 = 398 + 227 = 625$

$x = \pm 5$

II. $y^2 = 346 - 321$

$y = \pm 5$

no relation

S56. Ans.(e)

Sol. $x = \frac{1}{3}, \frac{-1}{3}$

$4y^2 + 12y - y - 3 = 0$

$4y(y + 3) - 1(y + 3) = 0$

$y = \frac{1}{4}, -3$

So, no relation can be established

S57. Ans.(a)

Sol. $x = \sqrt{5}, -\sqrt{5}$

$4y^2 - 14y - 10y + 35 = 0$

$2y(2y - 7) - 5(2y - 7) = 0$

$y = \frac{5}{2}, \frac{7}{2}$

$x < y$

**RRB 2018****ASSISTANT LOCO PILOT (ALP)
& TECHNICIANS****FIRST STAGE CBT / PRELIMS****TOTAL VACANCIES : 26502****20 FULL LENGTH MOCKS****Bilingual**

S58. Ans.(d)

Sol. $x^2 - 7x + 2x - 14 = 0$

$$x(x - 7) + 2(x - 7) = 0$$

$$x = 7, -2$$

$$y^2 + 5y + 2y + 10 = 0$$

$$y = -2, -5$$

$$x \geq y$$

S59. Ans.(d)

Sol. Solving these equations.

$$x = -3, y = -4$$

$$x \geq y$$

S60. Ans.(d)

Sol. $2x^2 - 4x - \sqrt{13}x + 2\sqrt{13} = 0$

$$2x(x - 2) - \sqrt{13}(x - 2) = 0$$

$$x = \frac{\sqrt{13}}{2}, 2$$

$$10y^2 - 18y - 5\sqrt{13}y + 9\sqrt{13} = 0$$

$$2y(5y - 9) - \sqrt{13}(5y - 9) = 0$$

$$y = \frac{\sqrt{13}}{2}, \frac{9}{5}$$

$$x \geq y$$

S61. Ans.(c)

Sol. I. $3x^2 + 10x + 8 = 0$

$$\Rightarrow 3x^2 + 6x + 4x + 8 = 0$$

$$\Rightarrow (x + 2)(3x + 4) = 0$$

$$\Rightarrow x = -2, -4/3$$

II. $3y^2 + 7y + 4 = 0$

$$\Rightarrow 3y^2 + 3y + 4y + 4 = 0$$

$$\Rightarrow (y + 1)(3y + 4) = 0$$

$$\Rightarrow y = -1, -4/3$$

$$y \geq x$$

S62. Ans.(e)

Sol. I. $2x^2 + 21x + 10 = 0$

$$\Rightarrow 2x^2 + 20 + x + 10 = 0$$

$$\Rightarrow (x + 10)(2x + 1) = 0$$

$$\Rightarrow x = -10, -1/2$$

II. $3y^2 + 13y + 14 = 0$

$$\Rightarrow 3y^2 + 6y + 7y + 14 = 0$$

$$\Rightarrow (y + 2)(3y + 7) = 0$$

$$\Rightarrow y = -2, -7/3$$

No relation

S63. Ans.(e)

Sol. I. $x^2 + x - 12 = 0$

$$\Rightarrow x^2 + 4x - 3x - 12 = 0$$

$$\Rightarrow (x + 4)(x - 3) = 0$$

$$\Rightarrow x = 3, -4$$

II. $y^2 + 2y - 8 = 0$

$$\Rightarrow y^2 + 4y - 2y - 8 = 0$$

$$\Rightarrow (y + 4)(y - 2) = 0$$

$$\Rightarrow y = -4, 2$$

No relation

S64. Ans.(e)

Sol. I. $4x^2 - 13x + 9 = 0$

$$\Rightarrow 4x^2 - 4x - 9x + 9 = 0$$

$$\Rightarrow (x - 1)(4x - 9) = 0$$

$$\Rightarrow x = 1, 9/4$$

II. $3y^2 - 14y + 16 = 0$

$$\Rightarrow 3y^2 - 6y - 8y + 16 = 0$$

$$\Rightarrow (y - 2)(3y - 8) = 0$$

$$\Rightarrow y = 2, 8/3$$

No relation

S65. Ans.(b)

Sol. I. $8x^2 + 18x + 9 = 0$

$$\Rightarrow 8x^2 + 12x + 6x + 9 = 0$$

$$\Rightarrow (2x + 3)(4x + 3) = 0$$

$$\Rightarrow x = -3/2, -3/4$$

II. $4y^2 + 19y + 21 = 0$

$$\Rightarrow 4y^2 + 12y + 7y + 21 = 0$$

$$\Rightarrow (y + 3)(4y + 7) = 0$$

$$\Rightarrow y = -3, -7/4$$

$$x > y$$



SBI JUNIOR ASSOCIATES 2018
COMBO

With Video Solution

65 TOTAL TEST

• 30 FULL LENGTH MOCKS

• 35 PRACTICE SETS

Bilingual

S66. Ans.(a)

Sol. I. $3x^2 + 16x + 21 = 0$

$\Rightarrow 3x^2 + 9x + 7x + 21 = 0$

$\Rightarrow (x + 3)(3x + 7) = 0$

$\Rightarrow x = -3, -7/3$

II. $6y^2 + 17y + 12 = 0$

$\Rightarrow 6y^2 + 9y + 8y + 12 = 0$

$\Rightarrow 3y(2y + 3) + 4(2y + 3) = 0$

$\Rightarrow y = -3/2, -4/3$

$y > x$

S67. Ans.(b)

Sol. I. $16x^2 + 20x + 6 = 0$

$\Rightarrow 8x^2 + 10x + 3 = 0$

$\Rightarrow 8x^2 + 4x + 6x + 3 = 0$

$\Rightarrow (2x + 1)(4x + 3) = 0$

$\Rightarrow x = -1/2, -3/4$

II. $10y^2 + 38y + 24 = 0$

$\Rightarrow 5y^2 + 19y + 12 = 0$

$\Rightarrow 5y^2 + 15y + 4y + 12 = 0$

$\Rightarrow (y + 3)(5y + 4) = 0$

$y = -3, -4/5$

$x > y$

S68. Ans.(c)

Sol. I. $8x^2 + 6x - 5 = 0$

$\Rightarrow 8x^2 + 10x - 4x - 5 = 0$

$\Rightarrow (4x + 5)(2x - 1) = 0$

$\Rightarrow x = 1/2, -5/4$

II. $12y^2 - 22y + 8 = 0$

$\Rightarrow 6y^2 - 11y + 4 = 0$

$\Rightarrow 6y^2 - 3y - 8y + 4 = 0$

$\Rightarrow (2y - 1)(3y - 4) = 0$

$\Rightarrow y = 1/2, 4/3$

$y \geq x$

S69. Ans.(a)

Sol. I. $17x^2 + 48x - 9 = 0$

$\Rightarrow 17x^2 + 51x - 3x - 9 = 0$

$\Rightarrow (x + 3)(17x - 3) = 0$

$\Rightarrow x = 3/17, -3$

$$\begin{aligned}\text{II. } 13y^2 - 32y + 12 &= 0 \\ \Rightarrow 13y^2 - 26y - 6y + 12 &= 0 \\ \Rightarrow (y - 2)(13y - 6) &= 0 \\ \Rightarrow y &= 2, 6/13 \\ y &> x\end{aligned}$$

S70. Ans.(d)

$$\begin{aligned}\text{Sol. I. } 8x^2 + 26x + 15 &= 0 \\ \Rightarrow 8x^2 + 20x + 6x + 15 &= 0 \\ \Rightarrow 4x(2x + 5) + 3(2x + 5) &= 0 \\ \Rightarrow (2x + 5)(4x + 3) &= 0 \\ \Rightarrow x &= -5/2, -3/4\end{aligned}$$

$$\begin{aligned}\text{II. } 4y^2 + 24y + 35 &= 0 \\ \Rightarrow 4y^2 + 10y + 14y + 35 &= 0 \\ \Rightarrow 2y(2y + 5) + 7(2y + 5) &= 0 \\ \Rightarrow (2y + 5)(2y + 7) &= 0 \\ \Rightarrow y &= -5/2, -7/2 \\ x &\geq y\end{aligned}$$

S71. Ans.(a)

$$\begin{aligned}\text{Sol. I. } 6x^2 + 19x + 15 &= 0 \\ \Rightarrow 6x^2 + 9x + 10x + 15 &= 0 \\ \Rightarrow (2x + 3)(3x + 5) &= 0 \\ \Rightarrow x &= -3/2, -5/3\end{aligned}$$

$$\begin{aligned}\text{II. } 24y^2 + 11y + 1 &= 0 \\ \Rightarrow 24y^2 + 8y + 3y + 1 &= 0 \\ \Rightarrow (3y + 1)(8y + 1) &= 0 \\ \Rightarrow y &= -1/3, -1/8 \\ y &> x\end{aligned}$$

S72. Ans.(e)

$$\begin{aligned}\text{Sol. I. } 2x^2 + 11x + 15 &= 0 \\ \Rightarrow 2x^2 + 6x + 5x + 15 &= 0 \\ \Rightarrow (x + 3)(2x + 5) &= 0 \\ \Rightarrow x &= -3, -5/2 \\ \text{II. } 4y^2 + 22y + 24 &= 0 \\ \Rightarrow 2y^2 + 11y + 12 &= 0 \\ \Rightarrow 2y^2 + 8y + 3y + 12 &= 0 \\ \Rightarrow (y + 4)(2y + 3) &= 0 \\ \Rightarrow y &= -4, -3/2 \\ \text{No relation}\end{aligned}$$



केनरा बैंक  Canara Bank

CANARA BANK PO 2018**SCALE-I****10 FULL LENGTH MOCKS**

Bilingual

S73. Ans.(b)

Sol. I. $2x^2 + 9x + 9 = 0$

$$\Rightarrow 2x^2 + 6x + 3x + 9 = 0$$

$$\Rightarrow (x + 3)(2x + 3) = 0$$

$$\Rightarrow x = -3, -3/2$$

II. $2y^2 + 17y + 36 = 0$

$$\Rightarrow 2y^2 + 8y + 9y + 36 = 0$$

$$\Rightarrow (y + 4)(2y + 9) = 0$$

$$y = -4, -9/2$$

$$x > y$$

S74. Ans.(a)

Sol.

I. $5x^2 + 29 + 20 = 0$

$$\Rightarrow 5x^2 + 25x + 4x + 20 = 0$$

$$\Rightarrow (x + 5)(5x + 4) = 0$$

$$\Rightarrow x = -5, -4/5$$

II. $25y^2 + 25y + 6 = 0$

$$\Rightarrow 25y^2 + 15y + 10y + 6 = 0$$

$$\Rightarrow (5y + 3)(5y + 2) = 0$$

$$\Rightarrow y = -3/5, -2/5$$

$$y > x$$

S75. Ans.(a)

Sol.

I. $3x^2 - 16x + 21 = 0$

$$\Rightarrow 3x^2 - 9x - 7x + 21 = 0$$

$$\Rightarrow (x - 3)(3x - 7) = 0$$

$$\Rightarrow x = 3, 7/3$$

II. $3y^2 - 28y + 65 = 0$

$$\Rightarrow 3y^2 - 15y - 13y + 65 = 0$$

$$\Rightarrow (y - 5)(3y - 13) = 0$$

$$\Rightarrow y = 5, 13/3$$

$$y > x$$

S76. Ans.(b)

Sol. Series is $\times 1.5, \times 2, \times 2.5, \times 3, \times 3.5$

$$\therefore ? = 135 \times 3.5 = 472.5$$

S77. Ans.(d)

Sol. Series is $\div 2 + 2, \times 2 + 2, \div 2 + 2, \times 2 + 2, \div 2 + 2$

$$\therefore ? = 78 \div 2 + 2 = 41$$

S78. Ans.(c)**Sol.** Series is $+ 2^2, + 3^3, + 4^2, + 5^3, + 6^2$

$$\therefore ? = 201 + 6^2 = 237$$

S79. Ans.(e)**Sol.** Series is $+ 1.5^2, + 2.5^2, + 3.5^2, 4.5^2, + 5.5^2$

$$\therefore ? = 46 + (5.5)^2 = 76.25$$

S80. Ans.(d)**Sol.** Series is $\times 2 - 7, \times 2 - 6, \times 2 - 5, \times 2 - 4, \times 2 - 3$

$$\therefore ? = 2114 \times 2 - 3 = 4225$$

S81. Ans.(c)**Sol.** Pattern is $+2^2, +3^2, +4^2, +5^2, +6^2$

$$\therefore ? = 177 + 25$$

$$= 202$$

S82. Ans.(d)**Sol.** Pattern is $+16, -32, +48, -64, +80$

$$\therefore ? = 307 + 80 = 387$$

S83. Ans.(d)**Sol.** Pattern is $\times 3 - 1, \times 3 - 2, \times 3 - 3, \times 3 - 4, \times 3 - 5,$

$$\therefore ? = 347 \times 3 - 5 = 1036$$

Adda 247

Govt jobs coaching, now in your Pocket!

Download the **Adda 247 App** and boost your preparation.

GET IT ON Google Play

The advertisement features a smartphone displaying the Adda247 app interface. The app shows sections for 'BANK PO', 'FEED', 'STUDY MATERIAL', and 'DISCUSS'. A hand is shown interacting with the app, specifically tapping on the 'DAILY QUIZ' section. The background is a collage of various study materials and app screenshots.

S84. Ans.(d)**Sol.** Patter is $\times 2, \times 4, \times 6, \times 8, \times 10$

$$\therefore ? = 576 \times 8 = 4608$$

S85. Ans.(b)**Sol.** Patter is $+312, +312, +312, +312, \dots$

$$\therefore ? = 780 + 312 = 1092$$

S86. Ans. (c)**Sol.** Pattern is $(\div 2), (\div 2), (\div 2) \dots\dots\dots$

$$\therefore 474 \div 2 = 237$$

S87. Ans. (a)**Sol.** Pattern is $(-19 \times 1), (-19 \times 2), (-19 \times 3) \dots\dots\dots$

$$\therefore 317 - 19 \times 3 = 260$$

S88. Ans. (d)**Sol.** Pattern is $(\times 1 - 2), (\times 4 - 3), (\times 9 - 4), (\times 16 - 5), (\times 25 - 6)$

$$\therefore 3353 \times 16 - 5 = 53643$$

S89. Ans. (b)**Sol.** Pattern is $1^4, 2^4, 3^4, 4^4, 5^4$

$$5^4 = 625$$

S90. Ans. (e)**Sol.** Pattern is $(\div 2 + 0.5), (\div 2 + 0.5) \dots\dots\dots$

$$\therefore 18.5 \div 2 + 0.5 = 9.75$$

S91. Ans.(b)**Sol.** Pattern is $\times 2 + 1, \times 4 + 3, \times 6 + 5, \times 8 + 7, \times 10 + 9$

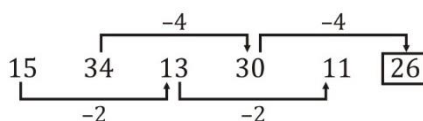
$$\therefore ? = 1151 \times 10 + 9$$

$$= 11519$$

S92. Ans.(c)**Sol.** Pattern is $\times 1 + 1, \times 2 + 2, \times 3 + 3, \times 4 + 4, \times 5 + 5, \dots$

$$\therefore ? = 63 \times 4 + 4$$

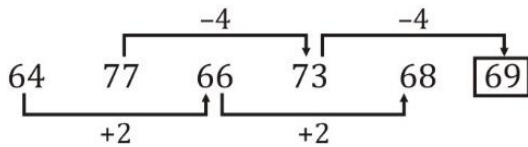
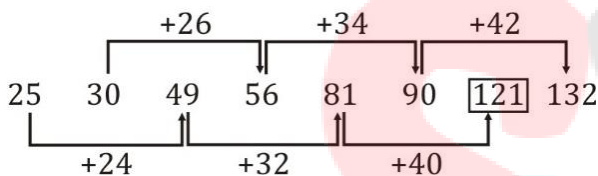
$$= 256$$

S93. Ans.(a)**Sol.** Series is

S94. Ans.(b)**Sol.** Pattern is $\times 0.5 + 2, \times 1 + 2, \times 1.5 + 2, \times 2 + 2, \times 2.5 + 2$

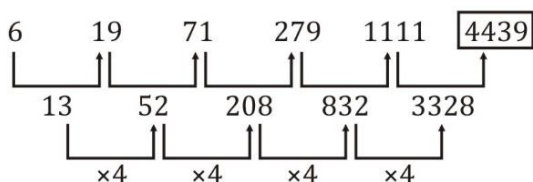
$$\therefore ? = 27 \times 2.5 + 2$$

$$= 69.5$$

S95. Ans.(d)**Sol.** Series is**S96. Ans.(d)****Sol.** Series is**S97. Ans.(b)****Sol.** Pattern is $\div 8, \div 6, \div 4, \div 2$

$$\therefore ? = 12.5 \div 4$$

$$= 3.125$$

S98. Ans.(a)**Sol.** Series is**S99. Ans.(d)****Sol.** Pattern is $+ 14 \times 1, + 14 \times 3, + 14 \times 9, + 14 \times 27$

$$\therefore ? = 564 + 14 \times 81$$

$$= 1698$$

S100. Ans.(b)**Sol.** Pattern is $\times 1 + 1, \times 2 + 2, \times 3 + 3, \times 4 + 4, \times 5 + 5$

$$\therefore ? = 352 \times 5 + 5$$

$$= 1765$$

Have a Coaching Institute?

Be a Adda247 Partner and take your institute to new heights.

partners.adda247.com



IBPS Guide

Complete Guide for Bank & SSC Exams

1000 Most Important Simplification Questions eBook For IBPS RRB/PO/CLERK

Directions (Q. 1-10): What approximate value should come in place of question mark (?) in the following questions?

1). $90.05 + 281 \div 4 - 151.06 = \sqrt[3]{?}$

- a) 27
- b) 343
- c) 216
- d) 729
- e) 243

2). $17.98^2 \div (4.05)^2 \times 90.11 \div 4.98 = ?$

- a) 396
- b) 336
- c) 242
- d) 325
- e) 365

3). $80.04\% \text{ of } 150.16 + 60.02\% \text{ of } 50.07 = ?$

- a) 150
- b) 125
- c) 210
- d) 175
- e) 140

4). $\sqrt{628} \times 17.996 \div 15.04 = ?$

- a) 30
- b) 10
- c) 5
- d) 20
- e) 15

5). $(1/8) \times 121 + (1/5) \times 76 - ? = 25$

- a) 5
- b) 45
- c) 15
- d) 10
- e) 25

6). $(28.07 \times 4.97 + 15 \times 6.05) \div [(7.03)^2 + \sqrt{256.10} + 13.0001] = ?$

- a) 2
- b) -2
- c) 3
- d) 6
- e) 4

7). $849 \text{ of } (11/16.13) \text{ of } (441.26 \div 20.98) \div (17.13 \div 319.85) = ?$



- a) 238000
- b) 201300
- c) 234500
- d) 231000
- e) 213000

8). $\sqrt{[\sqrt{(14640)} + \sqrt{?}]} = 13$

- a) 2400
- b) 2916
- c) 2305
- d) 2210
- e) 2350

9). $17.156 \times (864.63 - 356.34) = ? - 6909.8003$

- a) 15782
- b) 15802
- c) 15402
- d) 15852
- e) 15560

10). $4567.8 - (221 \times 9.7) = 5059 - ?$

- a) 2590
- b) 2409
- c) 2380
- d) 2700
- e) 2485

Solution With Answer Key:

1). D)

$$\begin{aligned} 3\sqrt{?} &= 90.05 + 281 \div 4 - 151.06 \\ &= 90 + 280 \div 4 - 151 = 90 + 70 - 151 = 9 \\ ? &= 9 \times 9 \times 9 = 729 \end{aligned}$$

2). E)

$$\begin{aligned} ? &= (18)^2 \div (4)^2 \times 90 \div 5 \\ &= (4.5)^2 \times 18 = 20.25 \times 18 = 364.5 = 365 \end{aligned}$$

3). A)

$$\begin{aligned} ? &= 80.04\% \text{ of } 150.16 + 60.02\% \text{ of } 50.07 = 80\% \text{ of } \\ &150 + 60\% \text{ of } 50 \\ &= 80 \times 1.5 + 60 \times 0.5 = 120 + 30 = 150 \end{aligned}$$

4). A)

$$\begin{aligned} ? &= \sqrt{628} \times 17.996 \div 15.04 \\ &= 625 \times 18 \div 15 = 25 \times 18 \div 15 = 30 \end{aligned}$$

5). A)

$$\begin{aligned} (1/8) \times 121 + (1/5) \times 76 - ? &= 25 \\ \text{or, } ? &= (1/8) \times 120 + (1/5) \times 75 - 25 = 15 + 15 - 25 = 5 \end{aligned}$$

6). C)

$$\begin{aligned} ? &= (28.07 \times 4.97 + 15 \times 6.05) / [(7.03)^2 + \sqrt{256.10} \\ &+ 13.0001] \\ ? &= (28 \times 5 + 15 \times 6) / [(7)^2 + \sqrt{256} + 13] = (140 + 90) / \\ &(49 + 16 + 13) \\ &= 230 / 78 \end{aligned}$$

7). D)

$$\begin{aligned} ? &= 849 \times 11/16.13 \times 441.26/20.98 \div 17.13/319.85 \\ &= 850 \times 11/16 \times 441/21 \times 320/17 = 50 \times 11 \times 21 \times 20 \\ &= 231000 \end{aligned}$$

8). C)

$$\begin{aligned} 13 &= \sqrt{[\sqrt{(14640)} + \sqrt{?}]} \\ \text{Squaring both sides} \\ \text{or, } 169 &= \{\sqrt{[\sqrt{(14640)} + \sqrt{?}]}\}^2 = \sqrt{(14640)} + \sqrt{?} \\ \text{or, } 169 &= \sqrt{(14640)} + \sqrt{?} = 121 + \sqrt{?} \\ \text{or, } \sqrt{?} &= 169 - 121 = 48 \\ ? &= (48)^2 = 2304 = 2305 \end{aligned}$$

9). E)

$$\begin{aligned} ? &= 17 \times (865 - 356) + 6910 \\ &= 8653 + 6910 = 15563 = 15560 \end{aligned}$$

10). D)



$$\begin{aligned} ? &= 5059 - 4567.8 + (221 \times 9.7) \\ &= 5060 - 4570 + (221 \times 10) = 5060 - 4570 + 2210 = \\ &7270 - 4570 = 2700 \end{aligned}$$

Directions (Q. 11-15): What approximate value should come in place of question mark(?) in the following questions? (You are not expected to calculate the exact value).

11). $(13.073)^2 + (29.103)^2 + (33.983)^2 + (36.9653)^2 = ?$

- a) 3660
- b) 4535
- c) 3365
- d) 3445
- e) 3540

12). $\sqrt{(1763.739)} \times \sqrt{(2400)} + 342.8998 + 1082.98 = ?$

- a) 1090
- b) 1120
- c) 1210
- d) 1075
- e) 1009

13). $\sqrt[3]{?} \times 31.96 + 103.98 \times 12.9765 - 90.954 \times 13.003 = 585.0138$

- a) 2390
- b) 2350
- c) 2400
- d) 2200
- e) 2105

14). $598\% \text{ of } 586 + 639\% \text{ of } 634.793 - 3285.998 = ?$

- a) 4280
- b) 4400
- c) 4100
- d) 4180
- e) 4380

15). $38.93\sqrt{?} + \sqrt{5625} + \sqrt{7920} + \sqrt{?} = 163.9963 \times 9.873$

- a) 1780
- b) 1600
- c) 1580
- d) 1360
- e) 1680

Directions (Q. 16-20): What will come in place of question mark (?) in the following questions?

16). $8743 + 486 \div 18 \times 148 = ?$

- a) 13729
- b) 12739
- c) 12729
- d) 13279
- e) None of these

17). $[(135)^2 \div 15 \times 39] \div ? = 60 \times 52$

- a) 15.19
- b) 16.18
- c) 17.18
- d) 19
- e) None of these

18). $6348 + 8515 - 695 - ? = 4312 + 2162$

- a) 7394
- b) 7943
- c) 7439
- d) 7440
- e) 7694

19). $1272 \div ? = 1382 - 956 - 214$

- a) 6
- b) 8
- c) 16
- d) 18
- e) 21



20). $10^{37} \times 10^{-33} = 10^?$

- a) 4
- b) 7
- c) 6
- d) 5
- e) None of these

Explanation With Answer Key:

11). E)

$$\begin{aligned} ? &= (13.073)^2 + (29.103)^2 + (33.983)^2 + (36.9653)^2 \\ &= (13)^2 + (29)^2 + (34)^2 + (37)^2 = 169 + 841 + 1156 + 1369 = 3535 = 3540 \end{aligned}$$

12). A)

$$\begin{aligned} ? &= \sqrt{1763.739} \times \sqrt{2400} \div 342.8998 + 1082.98 \\ &= \sqrt{1764} \times (\sqrt{2401} / 343) + 1083 \\ &= 42 \times (49/343) + 1083 = 6 + 1083 = 1089 = 1090 \end{aligned}$$

13). D)

$$\begin{aligned} \sqrt[3]{?} \times 31.96 + 103.98 \times 12.9765 - 90.954 \times 13.003 &= 585.0138 \\ \text{or, } \sqrt[3]{?} \times 32 + 104 \times 13 - 91 \times 13 &= 585 \\ \sqrt[3]{?} \times 32 + 13(104 - 91) &= 585 \\ \text{or, } \sqrt[3]{?} \times 32 + 169 &= 585 \\ \sqrt[3]{?} &= (585 - 169) / 32 = 13 \\ ? &= (13)^3 = 2197 = 2200 \end{aligned}$$

14). A)

$$\begin{aligned} ? &= 598\% \text{ of } 586 + 639\% \text{ of } 634.793 - 3285.998 \\ &= 600\% \text{ of } 586 + 640\% \text{ of } 635 - 3286 \\ &= 3516 + 4064 - 3286 = 4294 = 4280 \end{aligned}$$

15). D)

$$\begin{aligned} 38.93 \sqrt{?} + \sqrt{5625} + \sqrt{7920} + \sqrt{?} &= 163.9963 \times 9.873 \\ \text{or, } 39\sqrt{?} + \sqrt{5625} + \sqrt{7921} + \sqrt{?} &= 164 \times 10 \\ \text{or, } 40\sqrt{?} + 164 &= 1640 \\ \text{or, } \sqrt{?} &= 1476/40 = 37 \\ ? &= (37)^2 = 1369 = 1360 \end{aligned}$$

16). B)

$$\begin{aligned} ? &= 8743 + 486 \div 18 \times 148 \\ &= 8743 + 27 \times 148 = 8743 + 3996 = 12739 \end{aligned}$$

17). A)

$$\begin{aligned} [(135)^2 \div 15 \times 39] \div ? &= 60 \times 52 \\ \text{or, } [135 \times (135/15) \times 39] \div ? &= 3120 \\ \text{or, } 47385 \div ? &= 3120 \\ ? &= 47385 / 3120 = 15.19 \end{aligned}$$

18). E)

$$\begin{aligned} 6348 + 8515 - 695 - ? &= 4312 + 2162 \\ \text{or, } 14168 - ? &= 6474 \\ \text{or, } ? &= 14168 - 6474 = 7694 \end{aligned}$$

19). A)

$$\begin{aligned} 1272 / ? &= 1382 - 1170 \\ \text{or, } 1272/? &= 212 \\ ? &= 1272 / 212 = 6 \end{aligned}$$

20). A)

$$\begin{aligned} 10^? &= 10^{37} \times 10^{-33} \\ &= 10^{37-33} = 10^4 \\ ? &= 4 \end{aligned}$$

Directions (Q. 21-30): what approximate value should come in place of question mark (?) in the following questions?

21). $\sqrt{5626} + \sqrt{6085} - 29 = ?$

- a) 127
- b) 124
- c) 125
- d) 130
- e) None of these

22). $33.33 + 63.73 + 55.98 - 76.01 = ?$

- a) 67



- b) 75
c) 73
d) 77
e) None of these

23). $63.987 \times 9449.97 \div 243.01 = ?$

- a) 2520
b) 2468
c) 2430
d) 2444
e) 2450

24). $7153.99 + 5237.89 - 2205.10 - 666.013 = ?$

- a) 9270
b) 9530
c) 9520
d) 9259
e) 9525

25). $149.96\% \text{ of } 184.93 + 275.13\% \text{ of } 6279.9 - 183 = ?$

- a) 17480
b) 18460
c) 17340
d) 17370
e) 18037

26). $(10/12) \times [(4/18) \div (8/18)] \div (12/14) = ?$

- a) 1.25
b) 0.25
c) 0.5
d) 1.75
e) 2

27). $15\% \text{ of } 62.58 + 20\% \text{ of } 9.68 = ?$

- a) 14
b) 18
c) 16

- d) 11
e) 9

28). $543.28 \div 55 = ?$

- a) 4
b) 8
c) 10
d) 12
e) 9

29). $[(6/1.6) \times (22/0.4)] \div [(56/6) \times (42/10)] = ?$

- a) 5
b) 8.2
c) 5.8
d) 4.2
e) 6

30). $(2.2)^2 + (6.4)^2 + (6)^2 = ?$

- a) 90
b) 72
c) 82
d) 97
e) 87

Explanation With Answer Key:

21). B)

$$\sqrt{5626} = \sqrt{5625} = 75$$

$$\sqrt{6085} = \sqrt{6084} = 78$$

$$\begin{aligned} \text{Now, } ? &= \sqrt{5626} + \sqrt{6085} - 29 \\ &= 75 + 78 - 29 = 153 - 29 = 124 \end{aligned}$$

22). D)

$$? = 33.33 + 63.73 + 55.98 - 76.01$$

$$= 33 + 64 + 56 - 76 = 153 - 76 = 77$$

23). A)

$$? = 63.987 \times 9449.97 \div 243.01$$



$$= 64 \times 9450 \div 240 = 2520$$

24). C)

$$\begin{aligned} ? &= 7153.99 + 5237.89 - 2205.10 - 666.013 \\ &= 7154 + 5238 - 2205 - 666 = 12392 - 2871 = 9521 = 9520 \end{aligned}$$

25). D)

$$\begin{aligned} ? &= 149.96\% \text{ of } 184.93 + 275.13\% \text{ of } 6279.9 - 183 \\ &= (150/100) \times 185 + (275/100) \times 6279.9 - 183 \\ &= 277.5 + 17270 - 180 \\ &= 17547 - 180 = 17367 = 17370 \end{aligned}$$

26). C)

$$\begin{aligned} ? &= (10/12) \times [(4/18) \div (8/18)] \div (12/14) \\ &= (10/12) \times [(4/18) \times (18/8)] \div (12/14) \\ &= (10/12) \times (1/2) \times (14/12) = 140/288 = 0.5 \end{aligned}$$

27). D)

$$\begin{aligned} ? &= (15 / 100) \times 62.58 + (20/100) \times 9.68 \\ &= (15 \times 60) / 100 + (20 \times 10) / 100 = 9 + 2 = 11 \end{aligned}$$

28). C)

$$? = 543.28 \div 55 = 540 \div 55 = 10$$

29). A)

$$\begin{aligned} ? &= ? = [(6/1.6) \times (22/0.4)] \div [(56/6) \times (42/10)] \\ &= (3.75 \times 55) \div 39.2 \approx 5.2 \end{aligned}$$

Answer: a)

30). C)

$$\begin{aligned} ? &= (2.2)^2 + (6.4)^2 + (6)^2 \\ &= (2)^2 + (6.5)^2 + (6)^2 \\ &= 4 + 42.25 + 36 = 82.25 = 82 \end{aligned}$$

Directions (Q. 31-35): what should come in place of questions mark (?) in the following questions?

31). $[6/4 \times 32/8 \times 6/16] + [6/16 \times 24/8 \times 36/4] = ?$

- a) 93/67
- b) 99/8
- c) 94/8
- d) 99/13
- e) None of these

32). $(6160 + 12320) \div ? = 660$

- a) 35
- b) 22
- c) 25.5
- d) 32.4
- e) 28

33). $? \times (1047 + 137.5) = 46195.5$

- a) 27.4
- b) 26
- c) 28.4
- d) 39
- e) 28

34). $(10 \times 10 \times 10) / (4 + 4 + 4 + 4) = ?$

- a) 59.5
- b) 50.5
- c) 62.5
- d) 67.5
- e) 72.5

35). $(6/8) + (10/16) + (26/32) + (6/10) = ?$

- a) 51/16
- b) 26/9
- c) 29/12
- d) 53/16
- e) None of these



Directions (Q. 36-40): what approximate value should come in place of question mark (?) in the following questions? [you are not expected to calculate exact value]

36). $(2914.01 \div 31.1) \div (1.99 \div 3.01) \times 510.01 \div 169.99 = ?$

- a) 405
- b) 423
- c) 340
- d) 452
- e) 567

37). $(4810 / \sqrt{2310}) \times 22.678 + 130.13 = ?$

- a) 2300
- b) 2500
- c) 2700
- d) 2400
- e) 2250

38). $11.25\% \text{ of } 175 + 8.72\% \text{ of } 763 + 38\% \text{ of } 380 = ?$

- a) 230
- b) 295
- c) 267
- d) 195
- e) 182

39). $(26.89 \times 168.98 + 4317 - 6336.98) / \sqrt{230} = ?$

- a) 105
- b) 195
- c) 167
- d) 325
- e) 266

40). $\sqrt{(1087.9996) + (5.1961)^2} = ? \div (2 / 10.7960)$

- a) 44
- b) 48
- c) 30
- d) 68

e) 11

Explanation With Answers Key:

31). B)

$$? = [6/4 \times 32/8 \times 6/16] + [6/16 \times 24/8 \times 36/4]$$

$$= (9/4) + (81/8) = 99/8$$

32). E)

$$(6160 + 12320) \div ? = 660$$

$$(6160 + 12320) / 660 = 18480/660 = 28$$

33). D)

$$? \times (1047 + 137.5) = 46195.5$$

$$? = 46195.5 / (1047 + 137.5)$$

$$? = 46195.5 / 1184.5 = 39$$

34). C)

$$? = (10 \times 10 \times 10) / (4 + 4 + 4 + 4)$$

$$= 1000 / 16 = 62.5$$

35). E)

$$? = (6/8) + (10/16) + (26/32) + (6/10)$$

$$? = (3/4) + (5/8) + (13/16) + (3/5)$$

$$? = 223/80$$

36). B)

$$? = (2914.01 \div 31.1) \div (1.99 \div 3.01) \times 510.01 \div 169.99$$

$$? = (2914 \div 31) \div (2/3) \times (510/170)$$

$$= (2914/31) \times (3/2) \times (510/170) = (2914 \times 3 \times 3) / (31 \times 2)$$

$$= 47 \times 9 = 423$$

37). D)

$$? = (4810 / \sqrt{2310}) \times 22.678 + 130.13$$

$$= (4810/48) \times 22.7 + 130$$

$$= 100 \times 22.7 + 130 = 2270 + 130 = 2400$$



38). A)

$$\begin{aligned} ? &= [11.25 / 100] \times 175 + (8.72 / 100) \times 763 + \\ &(38/100) \times 380 \\ &= 20 + 66 + 144 = 230 \end{aligned}$$

39). C)

$$\begin{aligned} ? &= (26.89 \times 168.98 + 4317 - 6339.98) / \sqrt{230} \\ &= (27 \times 169 + 4317 - 6340) / \sqrt{230} \\ &= (4563 + 4317 - 6340) / 15 \\ &= (8880 - 6340) / 15 = 2540/15 = 167 \end{aligned}$$

40). E)

$$\begin{aligned} \sqrt{(1087.9996) + (5.1961)^2} &= ? \div (2 / 10.7960) \\ ? &= [\sqrt{(1089) + (5)^2}] \times (2/11) \\ &= (33 + 25) \times (2/11) = (58 \times 2) / 11 = 11 \end{aligned}$$

Directions (Q. 41-50): what will come in place of question mark (?) in the following questions?

41). $348 \div 29 \times 10 + 126 = ? + 220$

- a) 36
- b) 26
- c) 16
- d) 46
- e) 18

42). $(4 \times 4)^3 \div (512 \div 8)^4 \times (32 \times 8)^4 = (2+2)^{?+4}$

- a) 12
- b) 6
- c) Cannot be determined
- d) 8
- e) 14

43). $[(2\sqrt{392}) - 21] + (\sqrt{8} - 7)^2 = (?)^2$

- a) -4
- b) 12
- c) 6
- d) 4

e) 2

44). $2 \frac{1}{4} + 5 \frac{1}{6} - 4 \frac{1}{8} = ? + 1 \frac{1}{12}$

- a) $3 \frac{10}{48}$
- b) $4 \frac{1}{3}$
- c) $3 \frac{5}{24}$
- d) $2 \frac{5}{12}$
- e) $2 \frac{5}{24}$

45). $76\% \text{ of } 1285 = 35\% \text{ of } 1256 + ?$

- a) 543
- b) 547
- c) 533
- d) 537
- e) 557

46). $\{\sqrt{8} + [\sqrt{49} + (\sqrt{225})]\} = (?)^2 - 21$

- a) 4
- b) 5
- c) 3
- d) 6
- e) 8

47). $2/7 \text{ of } 5033 + 78\% \text{ of } 650 = (?)^2 + 181$

- a) 42
- b) 40
- c) 52
- d) 48
- e) 56

48). $4468 + 246.8 + 1468.28 - 6326.68 + 1248.6 = ?$

- a) 1305
- b) 1105
- c) 1005
- d) 1445
- e) 905

49). $(17.4)^2 + (18.2)^2 - (12.8)^2 = ?$



- a) 470.16
- b) 480.6
- c) 380.16
- d) 490.26
- e) 450.16

50). 32% of 480 + 5/7 of 1890 – 27% of 820 = ?

- a) 1382.2
- b) 1482.2
- c) 1372.2
- d) 1282.2
- e) 1485.2

Solution:

$$41). B) ? = 348 \div 29 \times 10 + 126 - 220$$

$$= 12 \times 10 + 126 - 220 = 120 + 126 - 220 = 246 - 220 = 26$$

42). B)

$$(2 + 2)^{?+4} = (4 \times 4)^3 \div (512 \div 8)^4 \times (32 \times 8)^4 = (4)^{2 \times 3} \div (4)^{3 \times 4} \times (4)^{4 \times 4}$$

$$= 4^{(6 - 12 + 16)} = 4^{10}$$

or, $(4)^{?+4} = 4^{10}$

or, $? + 4 = 10$

$? = 10 - 4 = 6$

43). C)

$$[(2\sqrt{392}) - 21] + (\sqrt{8} - 7)^2 = (?)^2$$

Or, $(?)^2 = [2\sqrt{(49 \times 8)} - 21 + 8 + 49 - 14\sqrt{8}]$

$$= 14\sqrt{8} - 21 + 8 + 49 - 14\sqrt{8} = 57 - 21 = 36$$

$? = \sqrt{(6 \times 6)} = 6$

44). E)

$$? = (2 + 5 - 4 - 1) + (1/4 + 1/6 - 1/8 - 1/12)$$

$$= 2 + (6 + 4 - 3 - 2) / 24 = 2 + 5/24 = 2 \frac{5}{24}$$

45). D) ? = 76% of 1285 — 35% of 1256

$$= [(76 \times 1285) / 100] - [(35 \times 1256) / 100]$$

$$= 976.6 - 439.6 = 537$$

46). B) $(?)^2 = \{\sqrt{8} + [\sqrt{49} + (\sqrt{225})]\} + 21$

$$= \{\sqrt{8} + [\sqrt{49} + 15]\} + 21 = \sqrt{(8 + 8)} + 21$$

$$?^2 = 4 + 21 = 25$$

$$? = \sqrt{(5 \times 5)} = 5$$

47). A)

$$(?)^2 + 181 = (2/7) \times 5033 + [(78 \times 650) / 100] = 1438 + 507 = 1945$$

$$\text{or, } (?)^2 = 1945 - 181 = 1764$$

$$? = \sqrt{1764} = 42$$

48). B)

$$? = 4468 + 246.8 + 1468.28 - 6326.68 + 1248.6$$

$$= 7431.68 - 6326.68 = 1105$$

49). A)

$$? = (17.4)^2 + (18.2)^2 - (12.8)^2 = 302.76 + 331.24 - 163.84$$

$$= 634 - 163.84 = 470.16$$

50). D)

$$? = [(32 \times 480) / 100] + (5/7) \times 1890 - (27 \times 820) / 100$$

$$= 153.6 + 1350 - 221.4 = 1282.2$$

Directions (Q. 51-60): what approximate value will come in place of question mark(?) in the given questions.

51). $(36.01)^3 \times (4096)^{1/2} \times (37.99)^2 \div (9^3 \times 75.98^2) = 4^?$

- a) 7
- b) 3
- c) 5
- d) 8
- e) 7



52). $(4809.01 + 9615.96 + 14425.03) + 4.98 + 6.02 =$
 $(?)^2$

- a) 92
- b) 67
- c) 72
- d) 76
- e) 74

53). $(35\% \text{ of } 74000) \div ? = (123\% \text{ of } 13.02)^2 \times 2.01$

- a) 40
- b) 50
- c) 75
- d) 90
- e) 65

54). $4/15 \text{ of } 393 + 7/12 \text{ of } 473 = ? \times (1.99 + 1.01)$

- a) 127
- b) 137
- c) 157
- d) 177
- e) 147

55). $\sqrt{(2809.001)} \div 7.98 \times (12.01)^2 + 46.002 = ?$

- a) 1300
- b) 900
- c) 1000
- d) 1100
- e) 980

56). $18\% \text{ of } 256 + 35\% \text{ of } 290 - 15\% \text{ of } 385 = ?$

- a) 83
- b) 80
- c) 90
- d) 70
- e) 85

57). $\sqrt{4090} \times \sqrt[3]{12163} + 49 = (?)^2$

- a) 29
- b) 49
- c) 33
- d) 39
- e) 37

58). $8 \frac{4}{7} + 9 \frac{3}{4} - 3 \frac{5}{8} - ? = 6 \frac{29}{56}$

- a) 8
- b) 6
- c) 10
- d) 5
- e) 2

59). $9/42 \div 108/63 \times 328 - 5/7 + 7/5 = ?$

- a) 32
- b) 28
- c) 40
- d) 45
- e) 42

60). $[(16 \frac{2}{3}) \times (45/39)] / [(3 \frac{15}{26}) - (3 \frac{4}{13})] = ?$

- a) 65
- b) 62
- c) 76
- d) 71
- e) 78

Explanation With Answers Key:

51). C) $(36.01)^3 \times (4096)^{1/2} \times 37.99^2 \div (9^3 \times 75.98^2) =$
 $4^?$

Or, $4^? = [36^3 \times \sqrt{4096} \times 38^2] / 9^3 \times 76^2$

or, $(4^3 \times 9^3 \times 4^3 \times 38 \times 38) / (9^3 \times 76 \times 76)$

$= (4^3 \times 4^3) / (2 \times 2)$

Or, $4^? = 4^3 \times 4^2 = 4^5$

$? = 5$



52). D) $(4809.01 + 9615.96 + 14425.03) \div 4.98 + 6.02 = (?)^2$

Or, $(?)^2 = [(4809 + 9616 + 14425) / 5] + 6$
 $= (28850/5) + 6 = 5770 + 6$

Or, $?^2 = 5776$

$? = \sqrt{5776} = 76$

53). B) $(35\% \text{ of } 74000) \div ? = (123\% \text{ of } 13.02)^2 \times 2.01$

Or, $(35 \times 74000) / 100 \div ? = [(123 \times 13) / 100]^2 \times 2$

or, $25900 / ? = (15.99)^2 \times 2$

or, $(25900 / ?) = 16 \times 16 \times 2$

$? = 25900 / (16 \times 16 \times 2) = 50.58 = 50$

54). A) $4/15 \text{ of } 393 + 7/12 \text{ of } 473$

$= ? \times (1.99 + 1.01)$

or, $? \times 3 = (4/15) \times 393 + (7/12) \times 480$

or, $? \times 3 = (4/15) \times 390 + (7/12) \times 480$

or, $? \times 3 = 104 + 280$

or, $? = 384/3 = 128 = 127$

55). C)

$\sqrt{2809.001} \div 7.98 \times (12.01)^2 + 46.002 = ?$

or, $? = \sqrt{2809} \div 8 \times (12)^2 + 46$

or, $? = (53/8) \times (12)^2 + 46$

or, $? = 954 + 46$

$? = 1000$

56). C) $18\% \text{ of } 256 + 35\% \text{ of } 290 - 15\% \text{ of } 385 = ?$

Or, $? = 18/100 \times 260 + 35/100 \times 300 - 15/100 \times 400$

$= 46.8 + 105 - 60 = 151.8 - 60 = 91.8 = 90$

57). D) $\sqrt{4090} = 4096 = 64$

$\sqrt[3]{12163} = \sqrt[3]{12167} = 23$

$?^2 = \sqrt{4090} \times \sqrt[3]{12163} + 49$

$= 64 \times 23 + 49$

$= 1472 + 49 = 1521 = (39)^2$

$? = 39$

58). A) $8 \frac{4}{7} + 9 \frac{3}{4} - 3 \frac{5}{8} - ? = 6 \frac{29}{56}$

Or, $? = (8+9-3-6) + (4/7 + 3/4 - 5/8 - 29/56)$

$= 8 + [(32 + 42 - 35 - 29) / 56] = 8 + 10/56 = 8$

59). C) $9/42 \div 108/63 \times 328 - 5/7 + 7/5 = ?$

Or, $? = 9/42 \times 63/108 \times 328 - 5/7 + 7/5$

$= 41 + 5/7 - 7/5 = 40$

60). D) $[(16 \frac{2}{3}) \times (45/39)] / [(3 \frac{15}{26}) - (3 \frac{4}{13})] = ?$

or, $? = (50/3 \times 45/39) / (93/26 - 43/13) = (250/13) /$

$[(93-86) / 26]$

$= 250/13 \times 26/7 = 500/7 = 71$

Directions (Q. 61-70): what will come in place of question mark (?) in the given questions .

61). $[4 \frac{2}{3} + 3 \frac{4}{9} + 6 \frac{5}{9}] \div ? = 12$

a) $2 \frac{2}{9}$

b) $2 \frac{4}{9}$

c) $1 \frac{2}{9}$

d) $1 \frac{4}{9}$

e) $1 \frac{8}{9}$

62). $\sqrt{2^?} = (8^2 \times 5^2) \div (200 \sqrt{2})$

a) 6

b) 4

c) 5

d) 8

e) 7

63). $(0.6)^2 \times 5 = ? - 348 \div 24$

a) 16.3

b) 13.9

c) 15.2

d) 17.2

e) 14.3

64). $8\sqrt{8} \times 8^3 \div 8^{5/2} = 2^?$



- a) 24
- b) 12
- c) 18
- d) 21
- e) None of these

65). ? of $420 + 486 \div 3 = (8)^3$

- a) $5/7$
- b) $6/7$
- c) $5/6$
- d) $4/5$
- e) $3/4$

66). $\sqrt{?} \div \sqrt{0.16} = 130$

- a) 2916
- b) 1936
- c) 3136
- d) 2304
- e) 2704

67). ?% of $(584.2 - 244.2) = (9)^2 + 21$

- a) 40
- b) 45
- c) 30
- d) 60
- e) 50

68). $\sqrt{625} \div 5 + ? = 18.9$

- a) 10.9
- b) 13.9
- c) 12.9
- d) 11.9
- e) 14.9

69). $210 - 1380 \div 11.5 = ? \times 45$

- a) 3
- b) 4
- c) 2

d) 1.5

e) 2.5

70). $(1.6)^2 \div (0.8)^2 = [(2.4)^2 \div (0.4)^2] - ?$

- a) 24
- b) 32
- c) 40
- d) 36
- e) 28

Explanation:

61). C) $[4 \frac{2}{3} + 3 \frac{4}{9} + 6 \frac{5}{9}] \div ? = 12$

$? = [14/3 + 31/9 + 59/9] \div 12$

$= (42 + 31 + 59) / (9 \times 12) = 132 / (9 \times 12) = 11/9$

$= 1 \frac{2}{9}$

62). C) $\sqrt{2^?} = (8^2 \times 5^2) \div (200 \sqrt{2})$

$= (64 \times 25) / ((200 \sqrt{2})) = (8 \sqrt{2}) \times (\sqrt{2} / \sqrt{2}) = 4\sqrt{2} =$

$\sqrt{2^5}$

$? = 5$

63). A) $(0.6)^2 \times 5 = ? - 348 \div 24$

or, $0.36 \times 5 = ? - 14.5$

or, $? = 14.5 + 1.8 = 16.3$

64). E) $8\sqrt{8} \times 8^3 \div 8^{5/2} = 2^?$

$8^{1+1/2+3-5/2} = 2^?$

$8^{(2+1+6-5)/2} = 2^?$

$8^{4/2} = 2^? \square 8^2 = 2^?$

$? = 6$

65). C) ? of $420 + 486 \div 3 = (8)^3$

or, $? \times 420 + 162 = 512$

or, $? \times 420 = 512 - 162$

or, $? = 350/420$

$? = 5/6$



66). E) $\sqrt{?} \div \sqrt{0.16} = 130$

Or, $\sqrt{?} = 130 \times 0.4 = 52$

$? = 52 \times 52 = 2704$

67). C) $? \% \text{ of } (584.2 - 244.2) = 9^2 + 21$

$(? \times 340) / 100 = 81 + 21 = 102$

$? = (102 \times 100) / 340 = 30$

68). B) $\sqrt{625} \div 5 + ? = 18.9$

or, $25 \div 5 + ? = 18.9$

or, $? = 18.9 - 5 = 13.9$

69). C) $210 - 1380 \div 11.5 = ? \times 45$

or, $210 - 120 = ? \times 45$

or, $? \times 45 = 90$

$? = 90 / 45 = 2$

70). B) $(1.6)^2 \div (0.8)^2 = [(2.4)^2 \div (0.4)^2] - ?$

Or, $(1.6 \times 1.6) / (0.8 \times 0.8) = [(2.4 \times 2.4) / (0.4 \times 0.4)] - ?$

or, $4 = 36 - ?$

or, $? = 36 - 4 = 32$

Directions (Q. 71-75): What will come in place of question mark(?) in the following questions?

71). $689 \times 6156 \div 18\% \text{ of } 684 = 28 \times 250 \div 8 + ? + 4300$

a) 27295

b) 29275

c) 29527

d) 29725

e) 27925

72). $\sqrt{4624} + \sqrt{?} + 12 - 43 = 137$

a) 10000

b) 9801

c) 10201

d) 10101

e) 11000

73). $189820 - 22624 + 35 \times ? - 372 \times 28 = 194440$

a) 1045

b) 1087

c) 1076

d) 1095

e) 1176

74). $39 \frac{13}{17} - 47 \frac{18}{34} + 23 \frac{11}{17} - 2 \frac{1}{34} = ?$

a) $13 \frac{5}{34}$

b) $11 \frac{29}{34}$

c) $29 \frac{13}{34}$

d) $13 \frac{29}{34}$

e) $13 \frac{27}{34}$

75). $44\% \text{ of } 1950 + 82\% \text{ of } 250 + 62\% \text{ of } ? = 7883$

a) 11500

b) 1110

c) 10000

d) 11800

e) 11000

Directions (Q. 76-80) : What approximate value should come in place of question mark (?) in the given number series ?

76). $90.05 + 281 \div 4 - 151.06 = 3\sqrt{?}$

a) 27

b) 343

c) 216

d) 729

e) 176

77). $17.98^2 + 4.05 \times 90.11 \div 4.98 = ?$

a) 396

b) 336

c) 242

d) 423

e) 816

78). $80.04\% \text{ of } 150.16 + 60.02\% \text{ of } 50.07 = ?$

a) 150

b) 125

c) 210

d) 175



e) 213

79). $\sqrt{628} \times 17.996 \div 15.04 = ?$

a) 30

b) 10

c) 5

d) 20

e) 25

80). $(1/8) \times 121 + (1/5) \times 76 - ? = 25$

a) 5

b) 45

c) 15

d) 35

e) 65

Solution:

71). B) $689 \times 6156 \div 18\% \text{ of } 684 = 28 \times 250 \div 8 + ?$

$+ 4300$

or, $689 \times 6156 \div 123.12 = 28 \times 31.25 + ? + 4300$

or, $(689 \times 6156) / 123.12 = 875 + ? + 4300$

$= ? + 5175$

$? = 34450 - 5175 = 29275$

72). A) $\sqrt{?} = 137 + 43 - 12 - \sqrt{4624}$

$= 168 - 68 = 100$

$? = 100 \times 100 = 10000$

73). C) $189820 - 22624 + 35 \times ? - 372 \times 28 = 194440$

or, $167196 + 35 \times ? - (370 + 2) \times 28 = 194440$

or, $35 \times ? = 194440 - 167196 + 10360 + 56 = 204856$

$— 167196 = 37660$

$? = 37660 / 35 = 1076$

74). D) $? = 39 \frac{13}{17} - 47 \frac{18}{34} + 23 \frac{11}{17} - 2 \frac{1}{34}$

$= (39 - 47 + 23 - 2) [(13/17) - (18/34) + (11/17) -$

$(1/34)]$

$= (62 - 49) [(26-18+22-1)/34] = 13 \frac{29}{34}$

75). E) $44\% \text{ of } 1950 + 82\% \text{ of } 250 + 62\% \times ? = 7883$

Solving by breaking method:

$40\% \text{ of } 1950 + 4\% \text{ of } 1950 + (80 + 2)\% \text{ of } 250 + 62\%$
 $\text{of } ? = 7883$

or, $780 + 78 + 200 + 5 + 62\% \text{ of } ? = 7883$

or, $1063 + 62\% \text{ of } ? = 7883$

or, $62\% \text{ of } ? = 7883 - 1063 = 6820$

$? = (6820/62) \times 100 = 11000$

76). D) $90.05 + 281 \div 4 - 151.06 = \sqrt[3]{?}$

$90 + (280/4) - 151 = \sqrt[3]{?}$

$90 + 70 - 151 = \sqrt[3]{?}$

$\sqrt[3]{?} = 9$

$? = 729$

77). A) $17.98^2 + 4.05 \times 90.114 \div 4.98 = ?$

$18^2 + 4 \times (90/5) = ?$

$324 + 4 \times 18 = ?$

$324 + 72 = ?$

$? = 396$

78). A) $80.04\% \text{ of } 150.16 + 60.02\% \text{ of } 50.07 = ?$

$(80/100) \times 150 + (60/100) \times 50 = ?$

$120 + 30 = ?$

$? = 150$

79). A) $\sqrt{628} \times 17.9964 \div 15 = ?$

$\sqrt{625} \times (18/15) = ?$

$(25 \times 18) / 15 = ?$

$? = 30$

80). A) $[(1/8) \times 121] + [(1/5) \times 76] - ? = 25$

$(120/8) + (75/5) - ? = 25$

$15 + 15 - ? = 25$

$? = 30 - 25$

$? = 5$

Directions (Q. 81-90): What should come in place of question mark in the following questions?



81). $\sqrt{(15 + 24 \times 0.5)} / \sqrt{(10.2 \div ?)} = 3$

- a) 2.4
- b) 5.7
- c) 1.7
- d) 3.4
- e) 6.8

82). $\sqrt{[(2) + (1/144)]} \div \sqrt{[(1) + (49/576)]} \times (27/34) = ?$
 $\div 25$

- a) 3
- b) 27
- c) 6
- d) 9
- e) 15

83). $65 \times 9 \div ? - 101 = \sqrt{256}$

- a) 4.5
- b) 4
- c) 18
- d) 3
- e) 5

84). $1 \frac{2}{3}$ of 1440 + 40% of 3550 - ? = 61^2

- a) 99
- b) 129
- c) 81
- d) 121
- e) 119

85). $? \div [25\% \text{ of } 289 - 32 \frac{3}{4}] = 0.2$

- a) 6.5
- b) 7.9
- c) 6.7
- d) 3.8
- e) 8.5

86). $84 + 14^2 = ? \times 105 \div 8.25$

- a) 23

b) 21

c) 22

d) 24

e) 26

87). $(12.5 \times 14) \div 20 + 41.25 = ?^3 \div 2.5$

- a) 6
- b) 5
- c) 3
- d) 4
- e) 7

88). $0.36 \times 0.36 + 0.28 \times 0.36 + 0.14^2 = ?$

- a) 0.144
- b) 0.25
- c) 0.016
- d) 0.025
- e) 0.16

89). $[(15.5 \times 30) \div 15 - 1250 \div 50] = ? \times 2$

- a) 3
- b) 2
- c) 5
- d) 1
- e) None of these

90). $\frac{1}{4}$ of 3832 + 150% of x = 2500

- a) 1028
- b) 1020
- c) 1026
- d) 1120
- e) None of these

Explanation with Answers

81). D) $\sqrt{(15+24 \times 0.5)} / \sqrt{(10.2 \div ?)} = 3$

or, $\sqrt{27/3} = \sqrt{(10.2 \div ?)}$

or, $\sqrt{3} = \sqrt{(10.2 \div ?)}$



Squaring both sides, we get

$$3 = 10.2 \div ?$$

$$? = 10.2 / 3 = 3.4$$

82). B) $? \div 25$

$$= \sqrt{[(2) + (1/144)]} \div \sqrt{[(1) + (49/576)]} \times (27/34)$$

$$= \sqrt{(289/144)} \times \sqrt{(576/625)} = (17/12) \times (24/25) \times$$

$$(27/34) = 27/25$$

$$? = (27/25) \times 25 = 27$$

83). E) $65 \times 9 \div ? = 101 + \sqrt{256} = 101 + 16 = 117$

$$\text{or, } ? = (65 \times 9) / 117 = 5$$

84). A) $5/3$ of 1440 + 40% of 3550 - $? = 61^2$

$$\text{or, } 5/3 \times 1440 + 2/5 \times 3550 - 61^2 = ?$$

$$\text{or, } 5 \times 480 + 2 \times 710 - 3721 = ?$$

$$\text{or, } ? = 2400 + 1420 - 3721 = 99$$

85). B) $? \div (25\% \text{ of } 289 - 32 \frac{3}{4}) = 0.2$

$$\text{or, } ? \div [(1/4) \times 289 - (131/4)] = 0.2$$

$$\text{or, } ? \div (289 - 131) / 4 = 0.2$$

$$\text{or, } ? \times (4/158) = 0.2$$

$$? = (0.2 \times 158) / 4 = 0.2 \times 39.5 = 7.9$$

86). C) $84 + 14^2 = ? \times 105 \div 8.25$

$$\text{or, } 84 + 196 = (? \times 105) / 8.25$$

$$? = (280 \times 8.25) / 105 = [(280 \times 8) + 280 \times (1/4)] / 105$$

$$= (2240 + 70) / 105 = 2310 / 105 = 22$$

87). B) $(12.5 \times 14) \div 20 + 41.25 = (?)^3 \div 2.5$

$$\text{or, } 8.75 + 41.25 = ?^3 / 2.5$$

$$\text{or, } 50 \times 2.5 = ?^3$$

$$? = \sqrt[3]{(5 \times 5 \times 5)} = 5$$

88). B) $0.36 \times 0.36 + 0.28 \times 0.36 + 0.14^2$

$$(a + b)^2 = a^2 + 2ab + b^2$$

$$\text{So, } (0.36 + 0.14)^2 = (0.5)^2 = 0.25$$

89). A)

90). A)

Directions (Q. 91-95): What will come in place of question mark (?) in the given questions?

91). $14 \times 627 \div \sqrt{(1089)} = (?)^3 + 141$

a) $5\sqrt{5}$

b) $(125)^3$

c) 25

d) 5

e) None of these

92). $(21.5/5) + (21/6) - (13.5/15) = [(?)^{1/3} / 4] +$

$(17/30)$

a) 2

b) 8

c) 512

d) 324

e) None of these

93). $(\sqrt{7} + 11)^2 = (?)^{1/3} + 2\sqrt{(847)} + 122$

a) $36 + 44\sqrt{(7)}$

b) 6

c) 216

d) 36

e) None of these

94). $(18/4)^2 \times (456/19) \div (61/793) = ?$

a) 6318

b) 6400

c) 6350

d) 6430

e) 6490

95). $? = (8/153) * (54 / 2\sqrt{4}) * (17/\sqrt{9})$

a) $1/4$

b) $2/4$

c) 6

d) 4

e) None of these



Directions (Q. 96-100): What approximate value should come in place of question mark (?) in the following questions?

96). 184.96% of $4699.658 + 274.93\%$ of $6279.88 - 648 = ?$

- a) 25225
- b) 25320
- c) 25530
- d) 25625
- e) 25525

97). $8789.879 \div 375.002 \times 24.996 + 6937.004 = ?$

- a) 7505
- b) 7580
- c) 7540
- d) 7525
- e) 7550

98). $(17.67)^2 + (16.87)^3 - (8.947)^3 \div 103.897 = ?$

- a) 6528
- b) 5458
- c) 5130
- d) 6350
- e) 5370

99). $2 \frac{3}{10} \times 5 \frac{6}{7} \times 7 \frac{1}{2} = ?$

- a) 68
- b) 72
- c) 93
- d) 100
- e) 84

100). $47.03 \times 37.03 + 12.03 \times 2\sqrt{(34595)} = ?$

- a) 6200
- b) 6209
- c) 6255
- d) 6226
- e) 6220

Solution:

91). $(?)^3 + 141 = 14 \times 627 \div \sqrt{(1089)}$
 $= (14 \times 627) / 33 = 14 \times 19 = 266$

Or, $(?)^3 = 266 - 141 = 125$

$? = \sqrt[3]{(5 \times 5 \times 5)} = 5$

Answer: d)

92). $[(?)^{1/3} / 4] = (129 + 105 - 27 - 17) / 30$

Or, $(?)^{1/3} = (190/30) \times 4$

$? = (76/3)^3$

Answer: e)

93). $(\sqrt{7} + 11)^2 = (?)^{1/3} + 2\sqrt{847} + 122$

Or, $7 + 22\sqrt{7} + 121 = (?)^{1/3} + 22\sqrt{7} + 122$

Or, $(?)^{1/3} = 128 - 122 = 6$

$? = 6 \times 6 \times 6 = 216$

Answer: c)

94). $? = (81/4) \times (456/19) \times (793/61) = (81/4) \times 24 \times 13$

$= 81 \times 6 \times 13 = 6318$

Answer: a)

95).

Answer: d)

96). $? = 184.96\%$ of $4699.658 + 274.93\%$ of $6279.88 - 648$

$= (185/100) \times 4700 + (275/100) \times 6280 - 648$

$= 185 \times 47 + 200\% \text{ of } 6280 + 75\% \text{ of } 6280 - 648 =$

$8695 + 12560 + 4710 - 648$

$? = 8695 + 17270 - 648 = 25317 = 25320$

Answer: b)

97). $? = 8789.879 \div 375.002 \times 24.996 + 6937.004$

$= 8790 \div 375 \times 25 + 6937$

$= (8790/375) \times 25 + 6937 = (8790/15) + 6937 = 586$

$+ 6937 = 7523 = 7525$

Answer: d)

98). $(17.67)^2 + (16.87)^3 - (8.947)^3 \div 103.897 = ?$



$$\begin{aligned}\text{Or, ?} &= (17.7)^2 + (16.9)^3 - (9)^3 \div 104 \\ &= 313.29 + 4826.809 - 729 \div 104 \\ &= 313 + 4827 - 7 = 5133 = 5130\end{aligned}$$

Answer: c)

$$\begin{aligned}99). 2 \frac{3}{10} \times 5 \frac{6}{7} \times 7 \frac{1}{2} &= ? \\ &= (23/10) \times (41/7) \times (15/2) \\ &= 14155/140 = 101 = 100\end{aligned}$$

Answer: d)

$$\begin{aligned}100). 47.03 \times 37.03 + 12.03 \times 2\sqrt{(34595)} &= ? \\ &= 47 \times 37 + 12 \times 2 \times \sqrt{(34595)} \\ &= 47 \times 37 + 12 \times 2 \times 186 = 1739 + 4464 \\ &= 6203 = 6200\end{aligned}$$

Answer: a)

Directions (Q. 101-110): What value should come in place of question mark (?) in the following questions?

$$101). \sqrt{2209} + \sqrt{361} - \sqrt{1296} = ?$$

- a) 34
- b) 30
- c) 36
- d) 26
- e) None of these

$$102). 0.8\% \text{ of } 3072 + 12\% \text{ of } 785 = ?$$

- a) 125.76
- b) 120.76
- c) 118.776
- d) 124.76
- e) None of these

$$103). 16^{6.5} \times 16^{12.25} = 16^{21-?}$$

- a) 2.20
- b) 2.25
- c) 2.5
- d) 3

e) None of these

$$104). 27^{2.5} \times ((243)^3)^? = 3^{23.5}$$

- a) 4.15
- b) 3
- c) 2.05
- d) 1.06
- e) None of these

$$105). \sqrt[3]{175616} \times \sqrt{1936} + (36)^2 = ?$$

- a) 3760
- b) 3860
- c) 3764
- d) 3770
- e) None of these

$$106). 4.15\% \text{ of } 1400 + 3.2\% \text{ of } 1600 + (361)^{1/2} = ?$$

- a) 128.3
- b) 137.6
- c) 123.3
- d) 115
- e) None of these

$$107). 6 \frac{1}{3} + 4 \frac{1}{5} + 1 \frac{3}{7} - 2 \frac{1}{7} + 4 \frac{2}{5} \times 3 \frac{1}{3} = ?$$

- a) 15 $\frac{7}{35}$
- b) 31 $\frac{3}{35}$
- c) 26 $\frac{2}{35}$
- d) 24 $\frac{17}{35}$
- e) None of these

$$108). [(64)^{1/2}]^{4.2} \times 8^{4.2} \times 7^{8.4} \times (56)^{4.3} = (56)^?$$

- a) 11.9
- b) 12.7
- c) 11.7
- d) 12.8
- e) None of these

$$109). \sqrt{33124} \times \sqrt{2601} - 83^2 = ?^2 + 37^2$$



- a) 37
- b) 33
- c) 28
- d) 29
- e) None

110). $572 \div 26 \times 12 - 200 = (2)^?$

- a) 5
- b) 6
- c) 7
- d) 8
- e) None of these

Solution:

101). B) $? = \sqrt{2209} + \sqrt{361} - \sqrt{1296}$
 $= 47 + 19 - 36 = 30$

102). C) $? = \{ [8 \div (10 \times 100)] \times 3072 \} + [(12/100) \times 785]$
 $= 24.576 + 94.20 = 118.776$

103). B) $(16)^{21-?} = 16^{6.5} \times 16^{12.25}$

or, $(16)^{21-?} = (16)^{6.5+12.25}$

or, $21 - ? = 18.75$

or, $? = 2.25$

104). D) $27^{2.5} \times ((243)^3)^? = 3^{23.5}$

or, $(3^3)^{2.5} \times ((3^5)^3)^? = 3^{23.5}$

or, $3^{3 \times 2.5} \times 3^{5 \times 3 \times ?} = 3^{23.5}$

or $15 \times ? = 23.5 - 7.5 = 16$

$? = 16 / 15 = 1.0667$

105). A) $? = \sqrt[3]{175616} \times \sqrt{1936} + (36)^2$

$56 \times 44 + 1296 = 2464 + 1296 = 3760$

106). A) $? = [(4.15/100) \times 1400] + [(3.2/100) \times 1600]$

$+ (361)^{1/2}$

$= 58.1 + 51.2 + 19$

$= 128.3$

107). D) $(19/3) + (21/5) + (10/7) - (15/7) + (22/5) \times (10/3)$
 $= (19/3) + (21/5) + (10/7) - (15/7) + (44/3) = [(19+44) / 3] + [(10 - 15) / 7] + (21/5)$
 $= (63/3) + (-5/7) + (21/5) = 21 - (5/7) + (21/5)$
 $= (735 - 25 + 147) / 35 = 857 / 35 = 24 \frac{17}{35}$

108). B). $(56)^? = (8)^{4.2} \times 8^{4.2} \times 7^{8.4} \times (56)^{4.3}$
 $= (8^{8.4} \times 7^{8.4}) \times (56)^{4.3} = (56)^{8.4} \times (56)^{4.3}$
 $= (56)^{(8.4+4.3)} = (56)^{12.7}$
 $? = 12.7$

109). E) $\sqrt{33124} \times \sqrt{2601} - 83^2 = ?^2 + 37^2$
 $= 182 \times 51 - 6889 = ?^2 + 1369$
 $= 2393 = ?^2 + 1369$
 $= ?^2 = 2393 - 1369 = 1024$
 $? = \sqrt{1024} = 32$

110). B)

Directions (Q. 111-115): What should come in place of question mark (?) in the following questions :

111). $(262144)^{1/3} \times 1/8 \times \sqrt[3]{(13824)/4} + \sqrt{17161} = ?$

- a) 181
- b) 176
- c) 207
- d) 179
- e) None of these

112). 15 % of 400 + $\sqrt{?}$ = 96 % of 275 - 5 % of 300

- a) 189
- b) 17
- c) 35721
- d) 207
- e) None of these

113). $(69)^2 + (21)^2 = (?)^2 + 578$



- a) 68
- b) 62
- c) 72
- d) 76
- e) None of these

114). $7 \frac{2}{7}$ of $189 + 452 = 2000 - ?$

- a) 179
- b) 191
- c) 188
- d) 171
- e) None of these

115). $(91)^2 + (41)^2 - \sqrt{?} = 9858$

- a) 10626
- b) 10816
- c) 11522
- d) 10424
- e) None of these

Direction (Q. 116-120): What approximate value should come in place of the question mark (?) in the following questions:

116). $\sqrt{3135} \div \sqrt{64.025} \times 4.454 = ? + 7 \div 2$

- a) 24
- b) 28
- c) 46
- d) 14
- e) None of these

117). $0.004 \times 0.7 \times 0.005 \times 0.6 + 0.004 \times 0.5 + 16.75 - 14.35 = ?$

- a) 2.5
- b) 4.5
- c) 3
- d) 5
- e) None of these

118). $268 \% \text{ of } 1947 + 19.47 \% \text{ of } 134 = ?$

- a) 5310
- b) 5140
- c) 5000
- d) 5260
- e) None of these

119). $42.5\% \text{ of } 450 + 33.021 \times 5.011 = ?$

- a) 345
- b) 355
- c) 350
- d) 360
- e) None of these

120). $5 \frac{7}{5}$ of $251.005 = ?$ of 2398.79

- a) $\frac{1}{3}$
- b) $\frac{2}{3}$
- c) $1 \frac{1}{3}$
- d) $1 \frac{1}{2}$
- e) None of these

Solution:

111). D) $? = 64 \times (\frac{1}{8}) \times (\frac{24}{4}) + 131 = 179$

112). C) $(\frac{15}{100}) \times 400 + \sqrt{?} = [(\frac{96}{100}) \times 275] - [(\frac{5}{100}) \times 300]$
 $= 60 + \sqrt{?} = 264 - 15 \Rightarrow \sqrt{?} = 249 - 60$
 $= \sqrt{?} = 249 - 60$
 $= ? = (189)^2 = 35721$

113). A) $4761 + 441 = (?)^2 + 578$
 $= (?)^2 = 5202 - 578$
 $= (?)^2 = 4624 = ? = 68$

114). D) $(\frac{51}{7}) \times 189 + 452 = 2000 - ?$
 $= 1377 + 452 = 2000 - ?$



$$= ? = 171$$

115). B) $8281 + 1681 - \sqrt{?} = 9858$

$$= 9962 - 9858 = \sqrt{?}$$

$$= \sqrt{?} = 104$$

$$= ? = 104 \times 104 = 10816$$

116). B) $\sqrt{3135} \div \sqrt{64.025} \times 4.454 = \sqrt{?} + 3.5$

$$= ? = \sqrt{3136} \div \sqrt{64} \times 4.5 - 3.5$$

$$= 56 \div 8 \times 4.5 - 3.5$$

$$= 7 \times 4.5 - 3.5 \approx 28$$

117). A) $0.0028 \times 0.003 + 0.02 + 16.75 - 14.35 = ?$

$$= ? = 0.0000084 + 0.02 + 2.4 = 2.4200084 \approx 2.5$$

118). D) $268 \% \times 1947 + 1947 \times 1.34\% = ?$

$$? = 1947 \times 269.34 \% = 1947 \times 2.6934$$

$$= 1947 \times 2 + 1947 \times (7/10) \quad (0.6937 \approx 7/10)$$

$$= 3894 + 1363$$

$$= 5257 \approx 5260$$

119). B) $42.5 \times 4.5 + 33 \times 5 = ?$

$$? = 42.5 \times 4 + 42.5 \times (1/2) + 165$$

$$= 170 + 21.25 + 165 = 355 \square \square 356.25$$

120). B) $251.005 \times (5/32) = ? \times 2398.79$

$$251.005 \approx 250 \text{ and } 2398.79 \approx 2400$$

$$= 250 \times (32/5) = ? \times 2400$$

$$= ? = 1600/2400 = ? = 2/3$$

Directions (Q. 121-125): What will come in place of question mark (?) in the following questions.

121). $5 \frac{8}{9} \% \text{ of } 7290 + 3 \frac{3}{4} \% \text{ of } ? = 4 \frac{1}{3} \% \text{ of } 17325$

a) 4656

b) 7824

c) 6364

d) 8572

e) None of these

122). ${}^3\sqrt{(19683)} + {}^3\sqrt{(110592)} = 7.5\% \text{ of } ?$

a) 980

b) 1000

c) 1140

d) 1280

e) None of these

123). ${}^3\sqrt{(117649)} + ({}^3\sqrt{531441})^{1/2} + 12.5\% \text{ of } 48 = [(?)^2]^3$

a) 2

b) 2.5

c) 3

d) 3.5

e) None of these

124). $4/13 \text{ of } 7/29 \text{ of } 5/7 \text{ of } ? = 1120$

a) 21008

b) 21412

c) 21312

d) 21112

e) None of these

125). $\{(7735 \div 17) \div 16\% \text{ of } 11375\} \times 2048 = (?)^3$

a) 7

b) 8

c) 9

d) 10

e) None of these

Directions (Q.126-130): What approximate value will come in place of question mark in each of the following questions?

126). $62.66\% \text{ of } 4995.60 - 32.30\% \text{ of } 6895.58 = (?)^2$

a) 31

b) 37

c) 43



- d) 47
e) None of these

127). $\sqrt{2200} + {}^3\sqrt{4900} = \sqrt{?}$

- a) 2304
b) 4096
c) 5184
d) 6084
e) None of these

128). 29/143 of 14.3% of 37/300 of ? = 28

- a) 7840
b) 8480
c) 1020
d) 1260
e) None of these

129). (20.89% of 425.95 + 17.67% of 135.986) = $\sqrt{?}$

- a) 9409
b) 10609
c) 12769
d) 13689
e) None of these

130). $(\sqrt{3720} \div \sqrt{6560}) \times 224 = 16.66\% \text{ of } ?$

- a) 1648
b) 1430
c) 1235
d) 1008
e) None of these

Explanation:

121). D) $(429.30) + [(15 \times ?) / 4] = 750.75$
 $? = (321.45 \times 400) / 15 = 8572$

122). B) $(7.5/100) \times ? = 27 + 48 = 75$
 $? = (75 \times 100) / 7.5 = 1000$

123). A) $49 + 9 + 6 = 64 = ((?)^2)^3$

or, $(?)^6 = ((2)^2)^3$

$? = 2$

124). D) $(4/13) \times (7/29) \times (5/7) \times ? = 1120$

$? = 21112$

125). B) $[455 \div (16 \times 11375) / 100] \times 2048 = (?)^3$

or, $(?)^3 = (455 \div 1820) \times 2048$

$= (1/4) \times 2048 = 512 = 8^3$

$? = 8$

126). A) 62.66% of 4995.60 – 32.30% of 6895.58 =

$(?)^2$

or, $(?)^2 = 63\% \text{ of } 4996 - 32\% \text{ of } 6895$

$= 3147.48 - 2206.4 \approx 941$

$? = \sqrt{941} \approx 30.6 \approx 31$

127). B) $\sqrt{?} \approx 47 + 17 = 64$

$? = (64)^2 = 4096$

128). A) $(29/143) \times (14.3/100) \times (37/300) \times ? = 28$

$? = 7840$

129). C) $\sqrt{?} \approx 21\% \text{ of } 425 + 17.5\% \text{ of } 136$

$\sqrt{?} = 89.25 + 23.8 = 113.05 \approx 113$

$? = (113)^2 = 12769$

130). D) 16.66% of ? = $(\sqrt{3720} \div \sqrt{6560}) \times 224$

$= (61 \div 81) \times 224 \approx 168$

$? = (168 \times 100) / 16.66 \approx 1008$

Directions (Q. 131-135): What value should come in the place of question mark (?) in the following equations:

131). $3 \frac{1}{3} \div 6 \frac{3}{7} \times 1 \frac{1}{2} \times \frac{22}{7} = ?$



- a) 4.4
- b) $22/7$
- c) $5/22$
- d) 40.5
- e) $22/9$

132). $40.83 \times 1.02 \times 1.2 = ?$

- a) 49.97592
- b) 41.64660
- c) 58.7952
- d) 42.479532
- e) 56.5638

133). $[(144)^2 \div 48 \times 18] \div 36 = \sqrt{?}$

- a) 23328
- b) 36
- c) 216
- d) 46656
- e) None of these

134). $(23.6\% \text{ of } 1254) - (16.6\% \text{ of } 834)$

- a) 159.5
- b) 157.5
- c) 155.5
- d) 153.5
- e) 162.7

135). $3/8 \text{ of } 168 \times 15 \div 5 + ? = 549 \div 9 + 235$

- a) 189
- b) 107
- c) 174
- d) 296
- e) 326

Directions (Q. 136-140): What approximate value will come in the place of question mark (?) in the following equations:

136). $25.05 \times 123.95 + 388.99 \times 15.001 = ?$

- a) 900
- b) 8950
- c) 8935
- d) 8975
- e) 8995

137). $783.559 + 49.0937 \times 31.679 - 58.591 = ?$

- a) 26600
- b) 5000
- c) 12800
- d) 2550
- e) 2280

138). $(755\% \text{ of } 523) \div 777 = ?$

- a) 5
- b) 12
- c) 19
- d) 26
- e) 29

139). $158.25 \times 4.6 + 21\% \text{ of } 847 + ? = 950.93$

- a) 35
- b) 40
- c) 25
- d) 50
- e) 45

140). $25.05\% \text{ of } 2845 + 14.95 \times 2400 = ?$

- a) 36700
- b) 36500
- c) 35800
- d) 35600
- e) 36200

Solution:

131). $3 \frac{1}{3} \div 6 \frac{3}{7} \times 1 \frac{1}{2} \times \frac{22}{7} = ?$
 $= 10/3 \div 45/7 \times 3/2 \times 22/7$
 $= 10/3 \times 7/45 \times 3/2 \times 22/7$



$$= 22/9$$

Answer: e)

132). $40.83 \times 1.02 \times 1.2 = ?$

$$= (40.83 + 0.8166) \times 1.2$$

$$= 41.6466 \times 1.2 = 49.97592$$

Answer: a)

133). $[(144)^2 \div 48 \times 18] \div 36 = \sqrt{?}$

$$= [144 \times 144 \times 18 / 48 \times 36]^2$$

$$= (216)^2 = 46656$$

Answer: d)

134). $(23.6\% \text{ of } 1254) - (16.6\% \text{ of } 834)$

$$= 295.944 - 138.444 = 157.5$$

Answer: b)

135). $3/8 \text{ of } 168 \times 15 \div 5 + ? = 549 \div 9 + 235$

$$= 3/8 \times 168 \times 15 \times 1/5 + ? = 549 \times 1/9 + 235$$

$$= 3 \times 21 \times 3 + ? = 61 + 235$$

$$= 296 - 189 = 107$$

Answer: b)

136). $25.05 \times 123.95 + 388.99 \times 15.001$

$$= 25 \times 124 + 389 \times 15 = 3100 + 5835 = 8935$$

Answer: c)

137). $783.559 + 49.0937 \times 31.679 - 58.591 = ?$

$$= 783.559 + 1555.239322 - 58.591 \approx 2280 \text{ (approx)}$$

$$= 2280.207322$$

Answer: e)

138). $(755 \% \text{ of } 523) \div 777 = ?$

$$= 3948.65/777$$

$$= 5.08 \approx 5 \text{ (approx)}$$

Answer: a)

139). 45

Answer: e)

140). $25.05 \% \text{ of } 2845 + 14.95 \times 2400 = ?$

$$\approx 25/100 \times 2845 + 15 \times 240$$

$$\approx 711.25 + 36000$$

$$\approx 36711.25 \approx 36700$$

Answer: a)

Directions (Q. 141-145): What value should come in the place of question mark (?) in the following equations?

141). $[(1/37) \times 5106] + (9/23) \times 5681 = ? \times 3$

a) 518

b) 642

c) 787

d) 896

e) 936

142). $^3\sqrt{12167} + ^3\sqrt{4096} = \sqrt{?}$

a) 1369

b) 1521

c) 1681

d) 1849

e) 2209

143). $17.76 \div 0.37 + 24.32 \div 0.38 = ?$

a) 112

b) 136

c) 148

d) 164

e) 186

144). $0.32\% \text{ of } 1685 + 0.48\% \text{ of } 2145 = ?$

a) 11.264

b) 12.718

c) 13.806

d) 14.208

e) 15.688

145). $7164 \div 59.7 \times 7.85 = ?$

a) 648

b) 712

c) 884

d) 942



e) 1024

Directions (Q. 146-150): What value should come in the place of question mark (?) in the following equations:

146). $5/7$ of $2856 \div 17 + ? = 3024 \div 24 + 111$

- a) 117
- b) 126
- c) 134
- d) 147
- e) 151

147). $4212/? = ?/832$

- a) 1704
- b) 1872
- c) 1924
- d) 2048
- e) 2196

148). $1196 \times 0.85 + 18\% \text{ of } 2370 = ?$

- a) 1394.6
- b) 1412.8
- c) 1443.2
- d) 1484.4
- e) 1508

149). $\sqrt{6084} \div 0.13 - 586 = 3\sqrt{?}$

- a) 1728
- b) 2744
- c) 4096
- d) 5832
- e) None of these

150). $3846 \div 6 + \sqrt{1156} = ?\% \text{ of } 5625$

- a) 12
- b) 15
- c) 18
- d) 20
- e) 25

Solution:

141). C) $3 \times ? = (5106/37) + [(9 \times 5681) / 23] = 2361$

$? = 2361/3 = 787$

142). B) $\sqrt{?} = \sqrt[3]{12167} + \sqrt[3]{4096} = 23 + 16 = 39$

$? = (39)^2 = 1521$

143). A) $(17.376/0.37) + (24.32 / 0.38) = 48+64 = 112$

144). E) $? = [(0.32 \times 1685) / 100] + [(0.48 \times 2145) / 100]$

$= 5.392 + 10.296 = 15.688$

145). d) $? = (7164 / 59.7) \times 7.85 = 120 \times 7.85 = 942$

146). A) $5/7$ of $2856 \div 17 + ? = (3402/20) + 111$
 $= (2024/17) + ? = 126 + 111 = 237, ? = 237-120 = 117$

147). B) $(?)^2 = 4212 \times 832 = 324 \times 13 \times 13 \times 64$
 $= 64 \times 169 \times 324, \square ? = 8 \times 13 \times 18 = 1872$

148). C) $? = 1196 \times 0.85 + [(18 \times 2370) / 100] = 1016.6 + 426.6 = 1443.2$

149). B) $3\sqrt{?} = \sqrt{6084} \div 0.13 - 586 = 78 \div 0.13 - 586$
 $= 600 - 586 = 14$

$? = (14)^3 = 2744$

150). A) $(5625 \times ?) / 100 = (3846 / 6) + \sqrt{1156} = 641 + 34 = 675$

$? = (675 \times 100) / 5625 = 12$

Directions (Q. 151–160): What should come in place of the question mark (?) in the following questions?

151). $3^3 \div 3^7 \times (27)^2 \times 11.25 + 75\% \text{ of } 45 = ?$

- a) 131
- b) 132
- c) 133
- d) 134
- e) 135

152). $144\% \text{ of } 185 - 44\% \text{ of } 85 = 200 + ?$



- a) 37
- b) 33
- c) 29
- d) 23
- e) 17

153). $(17.35)^2 - (8.85)^2 = 200 + ?$

- a) 13.7
- b) 17.7
- c) 19.7
- d) 22.7
- e) 26.7

154). $(1 / 13) \times 3237 + (3 / 14) \times 5362 + 200\% \text{ of } 1 = ? + 1335$

- a) 15
- b) 35
- c) 55
- d) 65
- e) 75

155). $(11 / 7) \text{ of } (5 / 8) \text{ of } (13 / 9) \text{ of } 8568 = ?$

- a) 12310
- b) 12155
- c) 12265
- d) 12450
- e) 12255

156). $200.1 \times 9.9 - 25 \times 62.5 + 12 \times 144 = ? - 26.49$

- a) 1627.98
- b) 1842.28
- c) 1958.8
- d) 1972.88
- e) 2172.98

157). $\sqrt{48} + \sqrt{80} + \sqrt{176} + \sqrt{324} - \sqrt{121} = ? + 7 + 4\sqrt{11}$

- a) $4(\sqrt{5} + \sqrt{7})$

b) $6(\sqrt{3} + \sqrt{5})$

c) $4(\sqrt{3} + \sqrt{5})$

d) $3(\sqrt{5} + \sqrt{7})$

e) $9(\sqrt{2} + \sqrt{3})$

158). $1265 \div 25.3 + 102 \times 98 - (23)^2 = ?$

- a) 8517
- b) 9517
- c) 8717
- d) 7087
- e) 9087

159). ${}^3\sqrt{12167} + {}^3\sqrt{21952}\% \text{ of } 280 - {}^3\sqrt{704969}\% \text{ of } 56 = ?$

- a) 41.56
- b) 51.46
- c) 51.56
- d) 65.56
- e) None of these

160). $\{ [33 (17 / 25)] \times [34 (22 / 27)] \} + \{ [35 (28 / 52)] \times [36 (37 / 57)] \} = ?$

- a) 1853.78
- b) 3259.55
- c) 2467.59
- d) 2650.29
- e) 2493.13

Solution:

151). $? = 3^3 \div 3^7 \times (3^3)^2 \times 11.25 + [(75 \times 45) / 100]$
 $= (3)^{3+6-7} \times 11.25 + 33.75$
 $= 9 \times 11.25 + 33.75$
 $= 101.25 + 33.75 = 135$

Answer: e)

152). $[(144 \times 185) / 100] - [(44 \times 85) / 100]$
 $= 266.7 - 37.4 = 229 - 200 = 29$



Answer: c)

$$153). (17.35)^2 - (8.85)^2 = (17.35 + 8.85) (17.35 - 8.85)$$

$$= 2.62 \times 8.5 = 222.7$$

Answer: d)

$$154). (3237 / 13) + [(3 \times 5362) / 14] + [(200 \times 1) / 100]$$

$$= 249 + 1149 + 2 = 1400$$

$$? = 1400 - 1335 = 65$$

Answer: d)

155). **Answer: b)**

$$156). 200.1 \times 9.9 - 25 \times 62.5 + 12 \times 144 = ? - 26.49$$

$$\text{Or, } 1980.99 - 1562.5 + 1728 = ? - 26.49$$

$$\text{Or, } ? = 1980.99 + 1728 + 26.49 - 1562.5$$

$$= 3735.48 - 1562.5 = 2172.98$$

Answer: e)

$$157). ? + 7 + 4\sqrt{11} = \sqrt{48} + \sqrt{80} + \sqrt{176} + \sqrt{324} - \sqrt{121}$$

$$\text{Or, } ? = 4\sqrt{3} + 4\sqrt{5} + 4\sqrt{5} + 7 - 7 - 4\sqrt{11}$$

$$= 4(\sqrt{3} + \sqrt{5})$$

Answer: c)

$$158). 1265 / 25.3 + 102 \times 98 - (23)^2 = ?$$

$$= 50 + 9996 - 529 = 9517$$

Answer: b)

$$159). \sqrt[3]{12167} + \sqrt[3]{21952}\% \text{ of } 280 - \sqrt[3]{704969}\% \text{ of } 56 = ?$$

$$= 23 + [(28 \times 280) / 100] - [(89 \times 56) / 100]$$

$$= 23 + 78.4 - 49.84 = 51.56$$

Answer: c)

$$160). = ? \{ [33 (17 / 25)] \times [34 (22 / 27)] \} + \{ [35 (28 / 52)] \times [36 (37 / 57)] \}$$

$$= [(842 / 25) \times (1280 / 37)] + [(1848 / 52) \times (2089 / 57)]$$

$$= [(842 / 5) \times (256 / 37)] + [(616 / 52) \times (2089 / 19)]$$

$$= (215552 / 185) + (1286824 / 969)$$

$$= 1165.14 + 1302.45 = 2467.59$$

Answer: c)

Directions (Q.161-165): What approximate value should come in place of question mark (?) in the following questions?

$$161). (10/12) \times [(4/18) \div (8/18) \div (12/14)] = ?$$

- a) 1.25
- b) 0.25
- c) 0.5
- d) 1.75
- e) 2

$$162). 15\% \text{ of } 62.58 + 20\% \text{ of } 9.68 = ?$$

- a) 14
- b) 18
- c) 16
- d) 11
- e) 9

$$163). 543.28 \div 55 = ?$$

- a) 4
- b) 8
- c) 10
- d) 12
- e) 9

$$164). [(6/1.6) \times (22/0.4)] \div [(56/6) \times (42/10)] = ?$$

- a) 5
- b) 8.2
- c) 5.8



- d) 4.6
e) 4.4

165). $(2.2)^2 + (6.4)^2 + (6)^2 = ?$

- a) 90
b) 72
c) 82
d) 97
e) 87

Directions (Q. 166-170): What should come in place of question mark (?) in the following questions?

166). $[(6/4) \times (32/8) \times (6/16)] + [(6/16) \times (24/8) \times (36/4)] = ?$

- a) 93/67
b) 99/8
c) 94/8
d) 99/13
e) None of these

167). $(6160 + 12320) \div ? = 660$

- a) 35
b) 22
c) 25.5
d) 32.4
e) 28

168). $? \times (1047 + 137.5) = 461955$

- a) 27.4
b) 26
c) 28.4
d) 39
e) 28

169). $[(10 \times 10 \times 10) / (4 + 4 + 4 + 4)] = ?$

- a) 59.5
b) 50.5
c) 62.5

- d) 67.5
e) 72.5

170). $(6/8) + (10/16) + (26/32) + (6/10) = ?$

- a) 51/16
b) 26/9
c) 29/12
d) 53/16
e) None of these

Solution:

Directions (Q. 1-5):

161). $? = (10/12) \times [(4/18) \times (18/8)] \div (12/14)$
 $= (10/12) \times (1/2) \times (14/12) = (140/288) \approx 0.5$

Answer: c)

162). $? = [(15/100) \times 62.58] + [(20/100) \times 9.68]$
 $= [(15 \times 60) / 100] + [(20 \times 10) / 100] = 9 + 2 = 11$

Answer: d)

163). $? = 543.28 \div 55 \approx 540 \div 55 \approx 10$

Answer: c)

164). $? = [(6/1.6) \times (22/0.4)] \div [(56/6) \times (42/10)]$
 $= (3.75 \times 55) \div 39.2 \approx 5.2$

Answer: a)

165). $? = (2.2)^2 + (6.4)^2 + (6)^2$
 $\approx (2)^2 + (6.5)^2 + (6)^2 = 4 + 42.25 + 36 = 82.25 \approx 82$

Answer: c)

166). $? = [(6/4) \times (32/8) \times (6/16)] + [(6/16) \times (24/8) \times (36/4)]$
 $= (9/4) + (81/8) = (99/8)$

Answer: b)

167). $? = (6160 + 12320) / 660 = (18480 / 660) = 28$



Answer: e)

168). ? = (46195.5) / (1047+137.5)

? = 46195.5/1184.5 = 39

Answer: d)

169). ? = [(10 × 10 × 10) / (4+4+4+4)] = 10000/16 = 62.5

Answer: c)

170). ? = (6/8) + (10/16) + (26/32) + (6/16)
= (24+20+26+12) / 32 = 82/32 = 41/16

Answer: e)

Directions (Q. 171-180): what will come in place of question mark (?) in the following questions?

171). [(3024 / 189)^{1/2} + (684 / 19)²] = (?)² + 459

- a) -27
- b) -29
- c) 31
- d) 841
- e) 1089

172). 4.4 times of 5/16 of 30% of 216 = ?

- a) 81.9
- b) 83.7
- c) 87.3
- d) 89.1
- e) None of these

173). (0.0729 / 0.1)³ / (0.081 × 10)⁵ × (0.3 × 3)⁵ = (0.9)²⁺³

- a) 1
- b) 2
- c) 4
- d) 7
- e) None of these

174). (√?% of √1764 × 5) = 149.8 – 112

- a) √18
- b) 18
- c) 324
- d) 24
- e) None of these

175). (27)² × 6 / 9 + (7)³ + 71 = (?)³ – 431

- a) 11
- b) (13)³
- c) 13
- d) (11)²
- e) None of these

176). 321 × 9 / 0.8 = √? × 11.25

- a) 103037
- b) 103039
- c) 103041
- d) 103043
- e) 103045

177). 78.54 / 0.03 + 22.8 / 0.8 - 1470 × 1.25 = ?

- a) 809
- b) 807.5
- c) 805
- d) 802.5
- e) 801

178). 44% of 475 + 72% of 55 = 12.5% of ?

- a) 1978.6
- b) 1982.5
- c) 1988.8
- d) 1990
- e) 1992.2

179). (3√7)^{1/2} / (343)^{-1/2} × (3√7)² = (3√7)[?]

- a) 3



b) 7

c) 9

d) -2

e) -3

180). $8\frac{5}{8} \times 3\frac{3}{23} - 7\frac{1}{5} \times 4\frac{2}{9} = ?$

a) $51\frac{2}{5}$

b) $57\frac{2}{7}$

c) $53\frac{2}{5}$

d) $55\frac{2}{7}$

e) $57\frac{2}{5}$

Solution:

171). $(16)^{1/2} + (36)^2 = (?)^2 + 459$

Or, $?^2 = 4 + 1296 - 459 = 841$

Or, $? = \pm 29$

Answer: b)

172). $4.4 \times \frac{5}{16} \times \frac{30}{100} \times 216 = 4.4 \times \frac{5}{16} \times 64.8$

$= 89.1$

Answer: d)

173). $(0.729)^3 / (0.81)^5 \times (0.9)^5 = (0.9)^{?+3}$

Or, $[(0.9)^3]^3 / [(0.9)^2]^5 \times (0.9)^5 = (0.9)^{?+3}$

Or, $(0.9)^9 / (0.9)^{10} \times (0.9)^5 = (0.9)^{?+3}$

$(0.9)^{9-10+5} = (0.9)^{?+3}$

Or, $(0.9)^4 = (0.9)^{?+3}$

$? = 1$

Answer: a)

174). $(\sqrt{?}/100) \text{ of } 42 \times 5 = 37.8$

$(\sqrt{?}/10 \text{ of } 42 \times 5) = 37.8 \Rightarrow 4.2\sqrt{?} \times 5 = 37.8$

$21\sqrt{?} = 37.8$

$\sqrt{?} = 18 \Rightarrow ? = 324$

Answer: c)

175). $(729 \times 6 / 9) + 343 + 71 + 431 = ?^3$

Or, $486 + 343 + 71 + 431 = ?^3 \Rightarrow \text{or, } ?^3 = 1331 = (11)^3$

$? = 11$

Answer: a)

176). $\sqrt{?} = (321 \times 9) / (0.8 \times 11.25) = 321$

$? = (321)^2$

$= 103041$

Answer: c)

177). $? = 2618 + 28.5 - 1837.5$

$= 809$

Answer: a)

178). $(12.5 \times ?) / 100 = [(44 \times 475) / 100] + [(72 \times 55) / 100]$

$= 209 + 36.9 = 248.6$

$? = (24860 / 12.5) = 1988.8$

Answer: c)

179). $(7)^{1/6} / (7)^{-3/2} \times (7)^{2/3} = (7)^{1/6+3/2+2/3} = (7)^{7/3}$

$= (3\sqrt{7})^7 \Rightarrow ? = 7$

Answer: b)

180). $? = (69/8) \times (72/23) + (36/5) \times (38/9)$

$= 27 + (152/5) = (135 + 152) / 5 = 287/5 = 57\frac{2}{5}$

Answer: e)

181). $0.32 \times 0.32 + (0.18)^2 - 0.36 \times 0.32 = ?$

a) 0.144

b) 0.196

c) 0.0144

d) 1.196

e) 0.0196

182). $[2\frac{1}{4} + 8\frac{1}{2}] - 8\frac{1}{16} + 6\frac{1}{8} = ?$

a) $8\frac{2}{3}$

b) $9\frac{2}{3}$

c) $5\frac{5}{9}$

d) $6\frac{6}{9}$

e) $8\frac{13}{16}$

183). $\sqrt{[1 + (56 / 169)]} \times \sqrt{[75 + (1/9)]} \times 3\frac{3}{5} = ?^2$



- a) 16
- b) 6
- c) 4
- d) 14
- e) 8

184). $82 \times 7 \div ? - 251 = \sqrt{(1296)}$

- a) 20
- b) 5
- c) 3.5
- d) 10
- e) 2

185). $(16.5 \times 12) \div 36 + 80.9 = ?^3 \div 2.5$

- a) 7
- b) 6
- c) 9
- d) 12
- e) 8

186). $(4096)^{1/3} \times (1728)^{1/3} - ?^2 - 3 = 125$

- a) 8
- b) 4
- c) 6
- d) 12
- e) 3

187). $\sqrt{(3840 \times 0.25 \div \sqrt{(5.76)})} = 17 \frac{1}{2} \div ?/8$

- a) 3
- b) 7
- c) 1
- d) 5
- e) 8

188). $(1595 \div 5.5 - 185) / ? = 819 \div 39$

- a) 2
- b) 2.5
- c) 5

- d) 5.5
- e) 6

189). $\sqrt{(16 + 16 \times 0.25)} / \sqrt{(7 - ?)} = 2$

- a) 1.5
- b) 4
- c) 5
- d) 2
- e) 2.5

190). $? \div [(25 \% 249 - 22 \frac{3}{4})] = 0.5$

- a) 19.75
- b) 16.75
- c) 18.5
- d) 18.25
- e) 19.25

Solution:

181). $? = 0.32 \times 0.32 + (0.18)^2 - 0.36 \times 0.32$

$$(a - b)^2 = a^2 + b^2 - 2ab$$

$$= (0.32)^2 + (0.18)^2 - 2 \times 0.18 \times 0.32$$

$$= (0.32 - 0.18)^2 = (0.14)^2 = 0.0196$$

Answer: e)

182). $? = (2 \frac{1}{4} + 8 \frac{1}{2}) - 8 \frac{1}{16} + 6 \frac{1}{8}$

$$= 10 + (1/4 + 1/2) - 8 \frac{1}{16} + 6 \frac{1}{8}$$

$$= 10 \frac{3}{4} - 8 \frac{1}{16} + 6 \frac{1}{8}$$

$$= (10 - 8 + 6) + (3/4 - 1/16 + 1/8)$$

$$= 8 + [(12 - 1 + 2) / 16] = 8 \frac{13}{16}$$

Answer: e)

183). $?^2 = \sqrt{[1 + (56 / 169)]} \times \sqrt{[75 + (1/9)]} \times 3 \frac{3}{5}$

$$= \sqrt{[(169 + 56) / 169]} \times \sqrt{[(75 \times 9 + 1) / 9]} \times (18 / 5)$$

$$= \sqrt{(225 / 169)} \times \sqrt{(676 / 9)} \times (18 / 5) = 36$$

$$? = \sqrt{(6 \times 6)} = 6$$

Answer: b)



184). $82 \times 7 \div ? - 251 = \sqrt{(1296)}$

$574 \div ? = 36 + 251 = 287$

$? = 574 / 287 = 2$

Answer: e)

185). $?^3 \div 2.5 = 16.5 \times 12 \div 36 + 80.9$

$= 198.0 \div 36 + 80.9$

$?^3 = (5.5 + 80.9) \times 2.5 = 86.4 \times 2.5 = 216$

$? = \sqrt[3]{(6 \times 6 \times 6)} = 6$

Answer: b)

186). $(4096)^{1/3} \times (1728)^{1/3} - ?^2 - 3 = 125$

$(16) \times 12 - ?^2 - 3 = 125$

$16 \times 12 - 125 - 3 = ?^2$

$192 - 128 = ?^2$

$64 = ?^2$

$? = 8$

Answer: a)

187). $\sqrt{(38400 \times 0.25 \div \sqrt{(5.76)})} = 17 \frac{1}{2} \div ?/8$

$\sqrt{(38400 \times 1/4 \times 1/2.4)} = (35 / 2) \times (8 / ?)$

$\sqrt{(400)} = (35 \times 8) / (2 \times ?)$

$? = (35 \times 8) / (20 \times 2) = 7$

Answer: b)

188). $(1595 \div 5.5 - 185) / ? = 819 \div 39$

$(290 - 185) / ? = 21$

$105 / 21 = 5$

Answer: c)

189). $\sqrt{(16 + 16 \times 0.25)} / \sqrt{(7 - ?)} = 2$

$[\sqrt{(20)} / \sqrt{(7 - ?)}] = 2$

$20 / (7 - ?) = 4$

$7 - ? = (20 / 4) = 5$

$? = 7 - 5 = 2$

Answer: d)

190). $? \div [(249 / 4) - (91 / 4)] = 0.5$

$? \div (249 - 91) / 4 = 0.5$

$? \div (158 / 4) = 0.5$

$? \div 39.5 = 0.5$

$? = 39.5 \times 0.5 = 19.75$

Answer: a)

Directions (191 to 200): What should come in place of the question mark (?) in the following questions?

191). $18 \frac{2}{3} + 7 \frac{1}{2} = ?$

a) $26 \frac{1}{3}$

b) $19 \frac{1}{2}$

c) $26 \frac{1}{6}$

d) $25 \frac{2}{3}$

e) None of these

192). $(38)^2 + (63)^2 + (?)^2 = 6089$

a) 26

b) 24

c) 28

d) 32

e) None of these

193). $-224 + (-314) \times (-9) = ?$

a) -547

b) 2602

c) +547

d) -2602

e) None of these

194). $(?)^2 \div 4 + \sqrt{(1521)} = 1063$

a) 62

b) 68

c) 58

d) 66

e) None of these



195). 6, 13, 28, 59, ?, 249

- a) 124
- b) 122
- c) 120
- d) 118
- e) None of these

196). $8.7 + 6.2 \times 7.5 = ?$

- a) 55.04
- b) 55.02
- c) 66.48
- d) 104.02
- e) None of these

197). $64344 + 5239 + 4423 + 123 = ?$

- a) 74126
- b) 74223
- c) 74129
- d) 75624
- e) None of these

198). $749 \times 463 = ?$

- a) 346757
- b) 346847
- c) 345847
- d) 345767
- e) None of these

199). $(608.40 \times ?) \div 225 + 37 = 375$

- a) 115
- b) 135
- c) 130
- d) 124
- e) None of these

200). $12.25 \times 7.2 + 84.33 = ?$

- a) 182.51
- b) 177.44

- c) 174.33
- d) 172.53
- e) None of these

Solution:

191). $(56 / 3) + (15 / 2) = (112 + 45) / 6 = 157 / 6 = 26 (1 / 6)$

Answer: c)

192). $?^2 = 6089 - 1444 - 3969 = 676$

$? = 26$

Answer: a)

193). $-224 + 2826 = 2602$

Answer: b)

194). $(?^2 / 4) + \sqrt{154} = 1063$

$?^2 = (1063 - 39) \times 4 = 4096$

$? = 64$

Answer: e)

195). $6 \times 2 + 1 = 13$

$13 \times 2 + 2 = 28$

$28 \times 2 + 3 = 59$

$59 \times 2 + 4 = 122$

$122 \times 2 + 5 = 249$

Answer: b)

196). 55.2

Answer: e)

197).

Answer: c)

198). 346787

Answer: e)

199). $[(608.40 \times ?) / 225] + 37 = 375$



? = 125

Answer: e)

200).

Answer: d)

Directions (Q. 201 – 210): What value should come in place of question mark (?) in the following questions?

201). $15 - 2 + 4 / (1 / 2) \times 8 = ?$

- a) 272
- b) 77
- c) 168
- d) 56
- e) None of these

202). $48 / 12 + 4 \times 25 / 5 = ?$

- a) 24
- b) 21
- c) 18
- d) 15
- e) None of these

203). $23 \times 19 \times ? / 19 / 17 = 115$

- a) 65
- b) 75
- c) 85
- d) 95
- e) None of these

204). $[(3 / 2) / (1 / 2) \times (3 / 2)] / [(3 / 2) \times (1 / 2) / (3 / 2)] = ?$

- a) 6
- b) 8
- c) 10
- d) 12
- e) None of these

205). $[(3 + 3 + 3 + 3) / 3] / [(5 + 5 + 5 + 5) / 5] = ?$

- a) 1
- b) $1 / 2$
- c) $1 / 4$
- d) $1 / 8$
- e) None of these

206). $(5 + ? \times 19 - 15 - 7) / (13 \times 13 - 156) = 6$

- a) 4
- b) 4.5
- c) 5
- d) 5.5
- e) None of these

207). $35 - [23 - \{19 - (15 - ?)\}] = 12 \times 2 / (1 / 2)$

- a) 32
- b) 34
- c) 36
- d) 38
- e) None of these

208). $261 / ? \times 15 + 270 = 405$

- a) 24
- b) 25
- c) 27
- d) 28
- e) None of these

209). $3(1 / 2) + 5(1 / 5) + ? + 2(1 / 4) = 11(1 / 3)$

- a) $11 / 60$
- b) $13 / 60$
- c) $23 / 60$
- d) $29 / 60$
- e) None of these

210). $8500 + (1600 / ?) \text{ of } (1 / 5) = 8501$

- a) 310



- b) 315
c) 320
d) 325
e) None of these

Solution:

$$201). 15 - 2 + 4 / (1 / 2) \times 8 = 15 - 2 + 4 \times 2 \times 8$$

$$= 15 - 2 + 64 = 77$$

Answer: b)

$$202). 48 / 12 + 4 \times 25 / 5 = 4 + 4 \times 5 = 4 + 20 = 24$$

Answer: a)

$$203). (23 \times 19 \times ?) / 19 / 17 = 115$$

$$(23 \times 19 \times ?) / (19 \times 17) = 115$$

$$? = (115 \times 19 \times 17) / (23 \times 19) = 85$$

Answer: c)

$$204). [(3 / 2) / (1 / 2) \times (3 / 2)] / [(3 / 2) \times (1 / 2) / (3 / 2)] = ?$$

$$= [(3 / 2) \times (2 / 1) \times (3 / 2)] / [(3 / 2) \times (1 / 2) \times (2 / 3)]$$

$$= (9 / 2) / (1 / 2)$$

$$= (9 / 2) \times (2 / 1) = 9$$

Answer: e)

$$205). ? = (12 / 3) / (20 / 5) = 4 / 4 = 1$$

Answer: a)

$$206). (5 + ? \times 19 - 15 - 7) / (13 \times 13 - 156) = 6$$

$$(5 + ? \times 19 - 17) / (169 - 156) = 6$$

$$? \times 19 - 17 = 13 \times 6 = 78$$

$$? \times 19 = 78 + 17 = 95$$

$$? = 95 / 19 = 5$$

Answer: c)

$$207). 35 - [23 - \{19 - (15 - ?)\}] = 12 \times 2 / (1 / 2)$$

$$= 35 - 23 + (19 - 15 + ?) = 48$$

$$12 + 4 + ? = 48$$

$$48 - (4 + 12) = 32$$

Answer: a)

$$208). 261 / ? \times 15 + 270 = 405$$

$$261 / ? \times 15 = 405 - 270 = 135$$

$$(261 \times 15) / ? = 135$$

$$? = (261 \times 15) / 135 = 29$$

Answer: e)

$$209). 3(1 / 2) + 5(1 / 5) + ? + 2(1 / 4) = 11(1 / 3)$$

$$3 + 5 + 2 + [(1 / 2) + (1 / 5) + (1 / 4)] + ? = 11 + (1 / 3)$$

$$? = 11 - 10 + (1 / 3) - [(1 / 2) + (1 / 5) + (1 / 4)]$$

$$= 1 + (1 / 3) - (19 / 20) = (60 + 20 - 57) / 60 = 23 / 60$$

Answer: c)

$$210). 8500 + (1600 / ?) \text{ of } (1 / 5) = 8501$$

$$8500 + (1600 / ?) \times (1 / 5) = 8501$$

$$(1600 / ?) \times (1 / 5) = 8501 - 8500 = 1$$

$$? = 1600 / 5 = 320$$

Answer: c)

Directions (Q. 211 – 220): What should come in place of the question mark(?) in the following questions?

$$211). (27)^{1/3} + (125)^{1/3} + (64)^{1/3} = (? \sqrt{?})^{2/3}$$

a) 169

b) 144

c) 60

d) 134

e) 12

$$212). \{2.002 + 7.9 (2.8 - 1.4)\} = ?$$

a) 11.312

b) 12.204

c) 13.062



d) 14.442

e) 11.006

213). $(3^2 \times 2^5 \times 6^2) + (8^2 \times 3^2 \times 8^3) = ?$

a) 306170

b) 305080

c) 305280

d) 316210

e) 244912

214). $[(3/4) + (5/2)] + [(3/2) + (29/2)] = 2^{-2} \times ?$

a) 63

b) 71

c) 77

d) 79

e) 83

215). $(25)^2 + (?)^2 + (6)^2 = 805$

a) 10

b) 11

c) 12

d) 9

e) 14

Direction (216-220): What approximate value should come in place of the question mark (?) in the following questions?

216). $\{(4444 + 333 + 22 + 1) - (2 \times 3 \times 4 \times 5)\} \times 2.532 = ?$

a) 11850

b) 11950

c) 11749

d) 11860

e) 11532

217). $[(1.23)^2 + (2.34)^2 / (2.34 - 1.23)] \times 10 = ?$

a) 61

b) 63

c) 65

d) 67

e) 69

218). $17\% \text{ of } 760 + 57\% \text{ of } 78.99 + 77.77 = ?$

a) 238

b) 242

c) 248

d) 252

e) 256

219). $35.99 \sqrt{?} + 32.0032 \sqrt{?} = (68 / 10.998) \times (?)$

a) 81

b) 72

c) 169

d) 121

e) 144

220). $(3.2)^2 + (9.8)^2 + (8.13)^2 + (4.24)^2 = ?$

a) 190

b) 194

c) 188

d) 198

e) 170

Solution:

211). $(27)^{1/3} + (125)^{1/3} + (64)^{1/3} = 3 + 5 + 4 = 12$

$(12 \sqrt{12})^{2/3} = [(12)^{3/2}]^{2/3} = 12$

$? = 12$

Answer: e)

212). $? = \{2.002 + 7.9 (2.8 - 1.4)\}$

$= 2.002 + 7.9 \times 1.4$

$= 2.002 + 11.06 = 13.062$

Answer: c)

213). $? = (3^2 \times 2^5 \times 6^2) + (8^2 \times 3^2 \times 8^3)$

$= (9 \times 32 \times 36) + (64 \times 9 \times 512)$



$$= 10368 + 294912 = 305280$$

Answer: c)

$$\begin{aligned} 214). [(3/4) + (5/2) + (3/2) + (29/2)] &= (3 + 10 + 6 \\ &+ 58) / 4 \\ &= 77 / 4 \end{aligned}$$

$$? = (77 / 4) \times 2^2 = (77 / 4) \times 4 = 77$$

Answer: c)

$$215). 625 + (?)^2 + 36 = 805$$

$$(?)^2 = 805 - 625 - 36 = 144$$

$$? = 12$$

Answer: c)

$$216). ? = (4800 - 120) \times 2.532$$

$$= 4680 \times 2.532$$

$$= 11849.76; \text{Approx} = 11850$$

Answer: a)

$$217). ? = [(1.5129 + 5.4756) / 1.11] \times 10$$

$$= (6.9885 / 1.11) \times 10 = 6.2959 \times 10$$

$$= 62.959; \text{Approx} = 63$$

Answer: b)

$$\begin{aligned} 218). ? &= [(17 / 100) \times 760] + [(57 / 100) \times 79] + \\ &77.77 \end{aligned}$$

$$= 129.2 + 45.03 + 77.77 = 251.82; \text{Approx} = 252$$

Answer: d)

$$219). 36\sqrt{?} + 32\sqrt{?} = (68 / 11) \times (?)$$

$$\text{If } ? = 121, \text{ then } \sqrt{?} = 11$$

$$36 \times 11 + 32 \times 11 = (68 / 11) \times 121$$

$$748 = 68 \times 11$$

$$? = 121$$

Answer: d)

$$220). ? = (3.2)^2 + (9.8)^2 + (8.13)^2 + (4.24)^2 = ?$$

$$? = 10.24 + 96.04 + 66.0969 + 17.9776$$

$$= 190.354; \text{Approx} = 190$$

Answer: a)

Directions (Q. 221 – 230) : What should come in place of the question mark (?) in the following questions?

$$221). 1250 / ? = ? / 450$$

$$a) 750$$

$$b) 600$$

$$c) 450$$

$$d) 300$$

$$e) 900$$

$$222). 65\% \text{ of } 75 + 35\% \text{ of } 25 = ? \% \text{ of } 460$$

$$a) 7.5$$

$$b) 8.25$$

$$c) 9$$

$$d) 12.5$$

$$e) \text{None of these}$$

$$223). \sqrt[3]{148877} = 30 + ?$$

$$a) 19$$

$$b) 20$$

$$c) 21$$

$$d) 22$$

$$e) 23$$

$$224). [12(3/5) - 5(2/5)] / 5(3/70) = ?$$

$$a) 1(131 / 353)$$

$$b) 2(141 / 353)$$

$$c) 1(151 / 353)$$

$$d) 3(151 / 353)$$

$$e) \text{None of these}$$

$$225). 1805 / 19 + 65 = 200 + ?$$

$$a) 70$$

$$b) -40$$

$$c) 30$$

$$d) -30$$

$$e) \text{None of these}$$

$$226). 16.23 \times 12.9 + 17.32 = ?$$

$$a) 294.0036$$



- b) 490.4706
- c) 226.687
- d) 432.795
- e) None of these

227). $998711 - 362 - 74563 - 8526 - 66156 = ?$

- a) 849104
- b) 849014
- c) 849284
- d) 981416
- e) None of these

228). $32\% \text{ of } 860 \times ? = 61920$

- a) 252
- b) 255
- c) 215
- d) 205
- e) None of these

229). $[(6)^3 \times (9)^2] / 18 = ?$

- a) 1458
- b) 972
- c) 8748
- d) 162
- e) None of these

230). $7410 + ? - 3652 - 1479 = 11820$

- a) 9451
- b) 9527
- c) 9441
- d) 9541
- e) None of these

Solution:

221). $(?)^2 = 1250 \times 450 = 562500$

$? = 750$

Answer: a)

222). $48.7 + 8.75 = (460 / 100) \times ?$

$57.5 = 4.6 \times ?$

$? = 12.5$

Answer: d)

223). $\sqrt[3]{148877} = \sqrt[3]{(53)^2} = 53$

$? = 53 - 30 = 23$

Answer: e)

224). $[12(3 / 5) - 5(2 / 5)] / 5(3 / 70) = ?$

$= 7(1 / 5) / 5(3 / 70)$

$= (36 / 5) / (353 / 70)$

$= (36 / 5) \times (70 / 353)$

$= 501 / 353 = 1(151 / 353)$

Answer: c)

225). $1805 / 19 + 65 = 200 + ?$

$95 + 65 = 200 + ?$

$160 = 200 + ?$

$? = -40$

Answer: b)

226). $? = 16.23 \times 12.9 + 17.32$

$= 209.367 + 17.32$

$= 226.687$

Answer: c)

227). $? = 998711 - (362 + 74563 + 8526 + 66156)$

$= 998711 - 149607 = 849104$

Answer: a)

228). $860 \times (32 / 100) \times ? = 61920$

Or, $? = (61920 \times 100) / (860 \times 32) = 225$

Answer: e)

229). $[(6)^3 \times (9)^2] / 18 = ?$



$$? = (216 \times 81) / 18 = 972$$

Answer: b)

230). $7410 + ? - 3652 - 1479 = 11820$

Or, $? + 7410 - 5131 = 11820$

Or, $? + 2279 = 11820$

Or, $? = 11820 - 2279 = 9541$

Answer: d)

Directions (231-240): What should come in place of question mark (?) in the following questions?

231). $12.8\% \text{ of } 8800 - 16.4\% \text{ of } 5550 = 10\% \text{ of } ?$

- a) 964
- b) 2162
- c) 2062
- d) 1982
- e) 2226

232). $(2197)^{2/3} \div (28561)^{3/4} \times ? = (\sqrt{13})^5$

- a) $(13)^2$
- b) $(\sqrt{13})^{-2}$
- c) $(13)^7$
- d) $(\sqrt{13})^7$
- e) $(\sqrt{13})^{-7}$

233). $[(6\sqrt{11} + \sqrt{11}) \times (7\sqrt{11} + 9\sqrt{11})] - (28)^2 = ?$

- a) 454
- b) 484
- c) 462
- d) 478
- e) 448

234). $8 (9/47) \times 9 (13/56) \times 7 (7/11) \div 2 (4/9) - 6 (3/5) = ?$

- a) 488.4
- b) 420
- c) 223.6

d) 413.6

e) 229.65

235). $1739 \div 47 + 2679 \div 57 + 3819 \div 67 + 5159 \div 77 + 6699 \div 87 + 1245 \div 83 = ?$

- a) 315
- b) 300
- c) 288
- d) 295
- e) 324

236). $\sqrt{4902} \div \sqrt[3]{(6538.9)} \times 27.2 = ?$

- a) 98
- b) 97
- c) 76
- d) 124
- e) 100

237). $\sqrt{74000} \times 7.24 \times 6.1 - 21.3 = ?$

- a) 12003
- b) 11811
- c) 13043
- d) 10903
- e) 12102

238). $(7/16) \times 9616.2 + (11/20) \times 8210 = ?$

- a) 8732
- b) 8928
- c) 8723
- d) 8887
- e) 8920

239). $4498.97 \div 25 \times \sqrt[3]{(730)} = ?$

- a) 1620
- b) 1280
- c) 1260
- d) 1440
- e) 1008



240). $(73)^2 - (41)^2 + (29)^2 = ?$

- a) 4344
- b) 4321
- c) 4489
- d) 4649
- e) None of these

Solutions:

231). $? = [(12.8 \times 88 - 16.4 \times 55.5) \times 100] / 10$
 $= (1126.4 - 910.2) \times 10 = 216.2 \times 10$
 $= 2162$

Answer: b)

232). $[(13)^3]^{2/3} \div [(13)^4]^{3/4} \times ? = (\sqrt{13})^5$

Or, $13^2 \div 13^3 \times ? = (\sqrt{13})^5$

Or, $13^{-1} \times ? = (\sqrt{13})^5$

Or, $? = 13 \times (\sqrt{13})^5 = (\sqrt{13})^7$

Answer: d)

233). $? = 7\sqrt{11} \times 16\sqrt{11} - 784$

$= 1232 - 784 = 448$

Answer: e)

234). $? = (385/47) \times (517/56) \times (84/11) \times (9/22) - (33/5)$

$= (385 \times 27) / 44 - (33/5) = (51975 - 1452) / 220$

$= 50523 / 220 = 229.65$

Answer: e)

235). $? = 1739 \div 47 + 2679 \div 57 + 3819 \div 67 + 5159$

$\div 77 + 6699 \div 87 + 1245 \div 83$

$= 37 + 47 + 57 + 67 + 77 + 15 = 300$

Answer: b)

236). $? = \sqrt{4902} \div \sqrt[3]{6538.9} \times 27.2$

$\approx 70 \div 18.7 \times 27.2$

$= (70/18.7) \times 27.2 \approx 3.7 \times 27 \approx 100$

Answer: e)

237). $? \approx 272 \times 7.25 \times 6 - 21$

$= 1972 \times 6.1 - 21 = 11991$

Answer: a)

238). $? \approx (7/16) \times 9616 + (11/20) \times 8210$

$\approx 4207 + 4515.5 = 8722.5 \approx 8723$

Answer: c)

239). $? \approx (4500/25) \times \sqrt[3]{(729)}$

$= 180 \times 9 = 1620$

Answer: a)

240). $(73)^2 - (41)^2 + (29)^2 = ?$

$= (73 + 41)(73 - 41) + 841$ [$\because a^2 - b^2 = (a + b)(a - b)$]

$= 114 \times 32 + 841$

$= 3648 + 841 = 4489$

Answer: c)

Directions (Q. 241-245): what approximate value should come in place of question mark (?) in the following question?

(Note: You are not expected to calculate the exact value.)

241). $421 / 35 \times 299.99 / 25.05 = ?^2$

a) 22

b) 24

c) 28

d) 12

e) 18

242). $\sqrt{(197)} \times 6.99 + 626.96 = ?$

a) 885

b) 725

c) 825



d) 650

e) 675

243). $19.99 \times 15.98 + 224.98 + 125.02 = ?$

a) 620

b) 580

c) 670

d) 560

e) 520

244). $3214.99 + 285.02 + 600.02 - 4.01 = ?$

a) 3650

b) 4100

c) 4200

d) 3225

e) 3400

245). $? \% \text{ of } 1239.96 + 59.87 \% \text{ of } 449.95 = 579.05$

a) 35

b) 15

c) 25

d) 20

e) 30

Directions (Q. 246-250): What approximation value will come in place of question mark (?) in the given questions ? (You are not expected to calculate the exact value.)

246). $105.27 \% \text{ of } 1200.11 + 11.80 \% \text{ of } 2360.85 = 21.99 \% \text{ of } ? + 1420.99$

a) 500

b) 240

c) 310

d) 550

e) 960

247). $0.98 \% \text{ of } 7824 + 4842 / 119.46 - ? = 78$

a) 30

b) 60

c) 40

d) 50

e) 70

248). $(41.99^2 - 18.04^2) / ? = (13.11)^2 - 138.99$

a) 48

b) 12

c) 72

d) 84

e) 128

249). $(24.96)^2 / (34.11 / 20.05) + 67.96 - 89.11 = ?$

a) 884

b) 346

c) 252

d) 424

e) 366

250). $\sqrt{(2025.11)} \times \sqrt{(256.04)} + \sqrt{(399.95)} \times \sqrt{?} = 33.98 \times 40.11$

a) 1682

b) 1024

c) 1582

d) 678

e) 1884

Solution:

241). $(?)^2 \approx 420 / 35 \times 300 / 25 = 12 \times 300 / 25 = 12 \times 12$

$? = \sqrt{(12 \times 12)} = 12$

Answer: d)

242). $(?) \approx \sqrt{(196)} \times 7 + 627 = 14 \times 7 + 627 = 98 + 627 = 725$

Answer: b)



243). $? = 19.99 \times 15.98 + 224.98 + 125$
 $\approx 20 \times 16 + 225 + 125 = 320 + 225 + 125 = 670$

Answer: c)

244). $? \approx 3215 + 285 + 600 - 4 = 4100 - 4 \approx 4100$

Answer: b)

245). $[(? \times 1240) / 100] + [(60\% \text{ of } 450) / 100] \approx 580$

or, $? \times 12.40 + 270 = 580$

or, $? \times 12.40 = 580 - 270 = 310$

$? = 310 / 12.40 = 25$

Answer: c)

246). $105.27\% \text{ of } 1200.11 + 11.80\% \text{ of } 2360.85 =$

$21.99\% \text{ of } ? + 1420.99$

or, $[(105 \times 1200) / 100] + [(12 \times 2360) / 100] = [(22 \times ?) / 100] + 1421$

or, $[(22 \times ?) / 100] = 1260 + 283.20 - 1421 \approx 1543 - 1421 = 122$

$? = [(122 \times 100) / 22] = [(122 \times 50) / 11] = 11 \times 50 = 550$

Answer: d)

247). $0.98\% \text{ of } 7824 + 4842 / 119.46 - ? = 78$

or, $1\% \text{ of } 7824 + 4842 / 120 - 78 = ?$

or, $? = [(1 \times 7824) / 100] + (4842 / 120) - 78$

$\approx 78 + 40 - 78 = 40$

Answer: c)

248). $[(41.99)^2 - (18.04)^2] / ? = (13.11)^2 - 138.99$

or, $[(42)^2 - (18)^2] / ? = (13)^2 - 139$

or, $[(42 + 18)(42 - 18)] / ? = 169 - 139$

or, $60 \times 24 / ? = 30$

or, $? = 60 \times 24 / 30 = 48$

Answer: a)

249). $? = (24.96)^2 / (34.11 / 20.05) + 67.96 - 89.11$

$\approx (25)^2 / (34 / 20) + 67.96 - 89$

$\approx 625 / 1.7 + 68 - 89$

$\approx 367 + 68 - 89 \approx 346$

Answer: b)

250). $\sqrt{(2025.11)} \times \sqrt{(256.04)} + \sqrt{(399.95)} \times \sqrt{?} =$

33.98×40

or, $\sqrt{(2025)} \times \sqrt{(256)} + \sqrt{(400)} \times \sqrt{?} = 1360$

or, $20 \times \sqrt{?} = 1360 - 720 = 640$

or, $\sqrt{?} = (640 / 20) = 32$

$? = 32 \times 32 = 1024$

Answer: b)

Directions (Q. 251 – 260) : What will come in place of question mark (?) in the given questions?

251). $[(16)^3 \times (6)^2] / (4)^3 = ?^2$

a) 16

b) 32

c) 42

d) 48

e) 52

252). $\sqrt{(2304)} \times \sqrt{?} = 2832$

a) 3481

b) 3691

c) 4891

d) 2642

e) 3923

253). $345 / 23 / 5 = \sqrt{?}$

a) 256

b) 92

c) 1296

d) 81

e) 2401

254). ${}^3\sqrt{103823} = ? + 23$

a) 29



- b) 26
- c) 34
- d) 24
- e) 27

255). 15% of 750 / 2.5 - 16 = ? % of 1015 / 35

- a) 110
- b) 95
- c) 150
- d) 90
- e) 100

256). 194.751 + 276.233 + 126.021 + 21.753 = ?

- a) 616.758
- b) 618.758
- c) 614.878
- d) 620.214
- e) 681.758

257). $(23)^{27} \times (23)^{-12} / ? = (23)^{12}$

- a) $(23)^3$
- b) $(23)^5$
- c) $(23)^{27}$
- d) $(23)^{21}$
- e) None of these

258). $(43.7)^2 - ? = (23.6)^2$

- a) 1452.72
- b) 1252.73
- c) 1248.57
- d) 1452.73
- e) 1352.73

259). $52 \times 7 \times ? = 4004$

- a) 13
- b) $\sqrt{151}$
- c) 19
- d) 11

e) 210

260). 76% of 112 - 42% of 116 = ?

- a) 29.6
- b) 37.8
- c) 36.4
- d) 39.8
- e) 40.2

Solution:

251). $?^2 = (16^3 \times 6^2) / 4^3 = 4^6 \times 6^2 / 4^3$

$$4^3 \times 6^2 = 8^2 \times 6^2$$

$$? = 8 \times 6 = 48$$

Answer: d)

252). $48 \times \sqrt{?} = 2832$

$$\sqrt{?} = 2832 / 48 = 59$$

$$? = 3481$$

Answer: a)

253). $345 / (23 \times 5) = \sqrt{\sqrt{?}}$

$$\text{Or, } \sqrt{\sqrt{?}} = 3$$

$$? = (3 \times 3)^2 = 81$$

Answer: d)

254). $? + 23 = \sqrt[3]{103823}$

$$= \sqrt[3]{(47 \times 47 \times 47)}$$

$$\text{Or, } ? = 47 - 23 = 24$$

Answer: d)

255). ?% of 1015 / 35 = 150% of 750 / 2.5 - 16 = ? % of 1015 / 35

$$\text{Or, } (? \times 1015) / (35 \times 100) = [(150 \times 750) / (100 \times 2.5)] - 16$$

$$\text{Or, } (? \times 29) / 100 = 45 - 16 = 29$$

$$? = 100$$

Answer: e)



256). $194.751 + 276.233 + 126.021 + 21.753 =$
618.758

Answer: b)

257). $? = ((23)^{27} \times (23)^{-12}) / (23)^{12} = (23)^{15} / (23)^{12}$
 $= (23)^{15-12} = (23)^3$

Answer: a)

258). $? = (43.7)^2 - (23.6)^2$
 $= 1909.69 - 556.96 = 1352.73$

Answer: e)

259). $? = 4004 / (52 \times 7) = 4004 / 364 = 11$

Answer: d)

260). $? = [(76 / 100) \times 112] - [(42 / 100) \times 116]$
 $= 85.12 - 48.72 = 36.4$

Answer: c)

Direction (261 to 270): what will come in the place of the questions mark (?) in the following questions?

261). $2 + (4/6) + 3 + (6/7) + 4 + (5/7) + 3 + (2/3) = ?$

- a) $13 \times (3/7)$
- b) $14 \times (19/21)$
- c) $15 \times (19/21)$
- d) $14 \times (9/21)$
- e) None of these

262). 22% of 365 - 36% of 465 = ?

- a) 87
- b) 87.1
- c) -87.1
- d) -77.1
- e) None of these

263). ?% of 460 - 34% of 356 = 456

- a) 110.5

b) 123.4

c) 120.4

d) 125.4

e) None of these

264). 82% of 285 + ?% of 456 = 845

a) 134.06

b) 135.06

c) 125.06

d) 124.06

e) None of these

265). $\sqrt{(729 \times 81)} + (19)^2 + 11 = ?$

a) 651

b) 615

c) 515

d) 551

e) None of these

266). $(0.027)^2 \div (0.09)^5 \times (0.0081) = (0.3)^{?+4}$

a) 3

b) 4

c) -4

d) -3

e) None of these

267). $(2.25)^2 \div (3.375)^4 \times (1.5)^5 = (1.5)^{?-7}$

a) -3

b) -4

c) 3

d) 4

e) None of these

268). $(\sqrt{125.44 \times 85 \div 8}) - 11 = (?)^2 \div 3$

a) 12

b) 16

c) 28

d) 17



e) 18

269). 67% of $\sqrt{676} \div 0.01 = ? + 577$

a) 1165

b) 1156

c) 1651

d) 1166

e) None of these

270). $\sqrt{(12^2 \times 24 \div 5 - 6^3 + 149.8)} = (?)^2$

a) 25

b) 5

c) 625

d) 15

e) 17

Detailed Solutions:

261). $? = 2 + (4/6) + 3 + (6/7) + 4 + (5/7) + 3 + (2/3)$

$= 8/3 + 27/7 + 33/7 + 11/3$

$= (56 + 81 + 99 + 77) / 21$

$= 313 / 21$

$= 14 \times (19/21)$

262). $? = [(365 \times 22) / 100] - [(465 \times 36) / 100]$

$= 80.30 - 167.40 = -87.1$

263). $(460 \times ?) / 100 - (356 \times 34) / 100 = 456$

$\square 460 \times ? - 12104 = 45600$

$\square 460 \times ? = 45600 + 12104$

$= 57704$

$? = 57704 / 460 = 125.4$

264). $(285 \times 82) / 100 + (456 \times ?) / 100 = 845$

$\square 23370 + 456 \times ? = 84500$

$\square 456 \times ? = 84500 - 23370$

$= 61130$

$\square ? = 61130 / 456 = 134.06$

265). $\sqrt{(729 \times 81)} + (19)^2 + 11 = ?$

$\square ? = 243 + 361 + 11 = 615$

266). $(0.027)^2 \div (0.09)^5 \times (0.0081) = (0.3)^{?+4}$

$\square [(0.3)^3]^2 \div [(0.3)^2]^5 \times (0.3)^4$

$= (0.3)^{?+4}$

$\square (0.3)^{6-10+4} = (0.3)^{?+4}$

$\square ? + 4 = 0$

$\square ? = -4$

267). $(2.25)^2 \div (3.375)^4 \times (1.5)^5 = (1.5)^{?-7}$

$\square [(1.5)^2]^2 \div [(1.5)^3]^4 \times (1.5)^5$

$= (1.5)^{?-7}$

$\square (1.5)^4 \div (1.5)^{12} \times (1.5)^5$

$= (1.5)^{?-7}$

$\square (1.5)^{4-12+5} = (1.5)^{?-7}$

$\square -3 = ? - 7$

$\square ? = 7 - 3 = 4$

268). $(\sqrt{125.44} \times 85 \div 8) - 11 = (?)^{2/3}$

$\square [(11.2 \times 85) / 8] - 11 = (?)^{2/3}$

$\square 119 - 11 = (?)^{2/3}$

$\square 108 \times 3 = (?)^2$

$\square ? = \sqrt{324} = 18$

269). $\sqrt{676} \times (67/100) \div (1/100) = ? + 577$

$\square 26 \times (67/100) \times 100 = ? + 577$

$\square 1742 = ? + 577$

$\square ? = 1742 - 577 = 1165$

270). $(?)^2 = \sqrt{(691.2 - 216 + 149.8)}$

$= \sqrt{625} = 25$

$\square ? = \sqrt{25} = 5$

Directions (Q. 271-280): What approximate value will come in place of question mark (?) in the given questions? (You are not expected to calculate exact value.)



271). 105.27% of $1200.11 + 11.80\%$ of $2360.85 =$
 21.99% of $?$ + 1420.99

- a) 500
- b) 240
- c) 310
- d) 550
- e) 960

272). 0.98% of $7824 + 4842 \div 119.46 - ? = 78$

- a) 30
- b) 60
- c) 40
- d) 50
- e) 70

273). $(42.99^2 - 18.04^2) - ? = 13.11^2 - 138.99$

- a) 4004
- b) 1200
- c) 1720
- d) 8432
- e) 1410

274). $24.96^2 \div (34.11 + 20.05) + 67.96 + 89.11 = ?$

- a) 884
- b) 546
- c) 252
- d) 424
- e) 170

275). $\sqrt{(2025.11)} \times \sqrt{(256.04)} + \sqrt{(399.95)} \times \sqrt{(?) =}$
 33.98×40.11

- a) 1682
- b) 1024
- c) 1582
- d) 678
- e) 1884

276). $(2/7)$ of $3693.83 \div 2.061 = (?)^2$

- a) 23
- b) 19
- c) 24
- d) 25
- e) 29

277). $79.03 \times 13.899 \div 10.1 = ?$

- a) 111
- b) 109
- c) 132
- d) 121
- e) 212

278). $\sqrt[3]{(103823.068)} + (47.02)^2$

- a) 226
- b) 2794
- c) 2256
- d) 2166
- e) 2846

279). $12^{1.38} \times 12^{1.63} = (? \div 12^{-1}) \times 12$

- a) 2197
- b) 1728
- c) 1828
- d) 12321
- e) 1928

280). $(13.08\%$ of $7439) \times (4.23\%$ of $323) = ? \times 35$

- a) 362
- b) 392
- c) 400
- d) 340
- e) 320

Solutions:

271. 10



$$5.27\% \text{ of } 1200.11 + 11.80\% \text{ of } 2360.85 = 21.99\% \text{ of } ? + 1420.99$$

$$\Rightarrow 105\% \text{ of } 1200 + 12\% \text{ of } 2360 = 22\% \text{ of } ? + 1421$$

$$\Rightarrow 1260 + 283.2 = 0.22 \times ? + 1421$$

$$\Rightarrow 0.22 \times ? = 122.2 \Rightarrow ? = (122.2 / 0.22) = 555.45 \approx 550$$

Answer: d)

$$272. 0.98\% \text{ of } 7824 + 4842 \div 119.46 - ? = 78$$

$$\Rightarrow 1\% \text{ of } 7824 + 4842 \div 120 - 78 = ?$$

$$\Rightarrow ? = 78.24 + 40.35 - 78 = 40.59 \approx 40$$

Answer: c)

$$273. (41.99^2 - 18.04^2) - ? = 13.11^2 - 138.99$$

$$\Rightarrow (42^2 - 18^2) - ? = (13)^2 - 139$$

$$\Rightarrow \{(42 + 18)(42 - 18)\} - ? = 169 - 139$$

$$\Rightarrow \{60 \times 24\} - ? = 30$$

$$\Rightarrow 1440 - ? = 30 \Rightarrow ? = 1410$$

Answer: e)

$$274. 24.96^2 / (34.11 + 20.05) + 67.96 + 89.11 \\ = (25^2 / 54.16) + 67.96 + 89.11 = (625 / 54) + 67.96 + 89.11$$

$$= 11.5 + 68 + 89 = 168.5 \approx 170$$

Answer: e)

$$275. \sqrt{(2025.11)} \times \sqrt{(256.04)} + \sqrt{(399.95)} \times \sqrt{(?)} = 33.98 \times 40.11$$

$$\Rightarrow \sqrt{(2025)} \times \sqrt{(256)} + \sqrt{(400)} \times \sqrt{?} = 34 \times 40$$

$$\Rightarrow 45 \times 16 + 20 \times \sqrt{?} = 34 \times 40$$

$$\Rightarrow 720 + 20 \times \sqrt{?} = 1360$$

$$\Rightarrow 20 \times \sqrt{?} = 1360 - 720 \Rightarrow 20 \times \sqrt{?} = 640$$

$$? = (32)^2 = 1024$$

Answer: b)

$$276. (?)^2 = (2/7) \text{ of } 3693.83 \div 2.061$$

$$\approx (2/7) \times 3694 \times (1/2) = 528$$

$$\therefore ? = \sqrt{528} \approx \sqrt{23 \times 23} = 23$$

Answer: a)

$$277. ? \approx 79 \times (14/10) = 109$$

Answer: b)

$$278. ? \approx \sqrt[3]{103823} + (47)^2$$

$$= \sqrt[3]{(47 \times 47 \times 47)} + 2209 = 47 + 2209$$

$$= 2256$$

Answer: c)

$$279. 12^{1.38} \times 12^{1.63} = (? \div 12^{-1}) \times 12$$

$$\text{Or, } 12^{3.01} \approx 12^3 = ?$$

$$\therefore ? = 1728$$

Answer: b)

$$280. ? \times 35 = (13.08\% \text{ of } 7439) \times (4.23\% \text{ of } 323)$$

$$= [(13 \times 7450) / 100] \times [(4 \times 325) / 100]$$

$$= 13 \times 74.5 \times 13 = 169 \times 74.5 = 12590.5$$

$$\therefore ? = (12590.5/35) \approx 360 \approx 362$$

Answer: a)

Directions (Q. 281-290): What will come in place of the question mark (?) in the following questions?

$$281). (12 / 17) \text{ of } 25\% \text{ of } 1020 = 120 + ?$$

a) 60

b) 40

c) 80

d) 120

e) None of these

$$282). 4321 - 9241 + 5642 + 3220 = ? + 1203$$

a) 2649

b) 2769

c) 2639

d) 2749

e) None of these

$$283). 5^2 \times 26 \div \sqrt{169} - 3^2 = ? - 4^2$$



- a) 65
- b) 57
- c) 55
- d) 67
- e) None of these

284). $\sqrt{(54 \times 5 + 150 + 21)} = (?)^2$

- a) 21
- b) $\sqrt{21}$
- c) 441^2
- d) 441
- e) -441

285). $7^2 \times 49^2 = 7^? \times 343$

- a) 4
- b) 3
- c) 6
- d) 2
- e) None of these

286). $36\% \text{ of } 420 - 56\% \text{ off } 350 = ? - 94$

- a) 48.2
- b) 49.2
- c) -138.8
- d) -158.8
- e) None of these

287). $(\frac{2}{3}) \text{ of } 1(\frac{2}{5}) \text{ of } 75\% \text{ of } 540 = ?$

- a) 378
- b) 756
- c) 252
- d) 332
- e) None of these

288). $(\sqrt{9})^3 \times (\sqrt{81})^5 \div (27)^2 = (3)^{(?)}$

- a) 5
- b) 4
- c) 7

- d) 6
- e) None of these

289). $36 \times 15 - 56 \times 784 \div 112 = ?$

- a) 138
- b) 238
- c) 158
- d) 258
- e) None of these

290). $28.314 - 31.427 + 113.928 = ? + 29.114$

- a) 81.711
- b) 80.701
- c) 71.711
- d) 81.701
- e) None of these

Solutions:

281. $(\frac{12}{17}) \times (\frac{25}{100}) \times 1020 = 120 + ?$

$\Rightarrow 180 = 120 + ?$

$\Rightarrow ? = 180 - 120 = 60$

Answer: a)

282. $3942 = ? + 1203$

$\Rightarrow ? = 3942 - 1203 = 2739$

Answer: e)

283. $[(25 \times 26)/13] - 9$

$= ? - 16$

$\Rightarrow 41 = ? - 16$

$\Rightarrow ? = 41 + 16 = 57$

Answer: b)

284. $\sqrt{(270 + 150 + 21)} = ?^2$

$\Rightarrow \sqrt{441} = ?^2 \Rightarrow ?^2 = 21$

$\Rightarrow ? = \sqrt{21}$

Answer: b)



285. $7^2 \times (7^2) = 7^? \times 7^3$

$\Rightarrow [(7^2 \times 7^4) / 7^3] = 7^? \Rightarrow 7^3 \Rightarrow 7^? \Rightarrow ? = 3$

Answer: b)

286. $[(420 \times 36) / 100] - [(350 \times 56) / 100]$

$= ? - 94$

$\Rightarrow 151.2 - 196 = ? - 94$

$\Rightarrow ? = 151.2 + 94 - 196 = 49.2$

Answer: b)

287. $? = 540 \times (75/100) \times (7/5) \times (2/3) = 378$

Answer: a)

288. $(\sqrt{3^2})^3 \times (\sqrt{3^4})^5 \div (3^2)^2 = 3^?$

$\Rightarrow 3^3 \times 3^{2 \times 5} \div 3^6 = 3^?$

$\Rightarrow 3^{3+10-6} = 3^?$

$\Rightarrow 3^7 = 3^?$

$\Rightarrow ? = 7$

Answer: c)

289. $? = 36 \times 15 - [(56 \times 784) / 112]$

$= 540 - 392 = 148$

Answer: e)

290. $28.314 - 31.427 + 113.928$

$= ? + 29.114$

$\Rightarrow 110.815 = ? + 29.114$

$\Rightarrow ? = 110.815 - 29.114$

$= 81.701$

Answer: d)

Directions (291-300): What value should come in place of question mark (?) in the following questions?

291). $92 \times 576 \div 2\sqrt{1296} = (?)^3 + \sqrt{49}$

a) 3

b) $(9)^2$

c) 9

d) 27

e) None of these

292). $(\sqrt{8} \times \sqrt{8})^{(1/2)} + (9)^{(1/2)} = (?)^3 + \sqrt{8} - 340$

a) 7

b) 19

c) 18

d) 9

e) None of these

293). $(15 \times 0.40)^4 \div (1080 \div 30)^4 \times (27 \times 8)^4 = (3 \times 2)^{?+5}$

a) 8

b) 3

c) 12

d) 16

e) None of these

294). $(\sqrt{243}) / (\sqrt{3}) = ?$

a) 12

b) 9

c) 15

d) 6

e) None of these

295). $? / (\sqrt{196}) = 5$

a) 76

b) 72

c) 70

d) 75

e) None of these

296). $420 / \sqrt{?} = 15$

a) 596

b) 684

c) 685

d) 784

e) None of these

297). $\sqrt{(?/225)} = 2$



- a) 900
- b) 950
- c) 975
- d) 925
- e) None of these

8). $\sqrt{217 + \sqrt{52 + \sqrt{144}}} = ?$

- a) 18
- b) 16
- c) 12
- d) 15
- e) None of these

9). $\sqrt{0.04 + \sqrt{0.0025}} = ?$

- a) 0.35
- b) 0.16
- c) 0.25
- d) 0.2
- e) None of these

10). $\frac{\sqrt{1156}}{\sqrt{289}} = \frac{?}{12.5}$

- a) 24
- b) 25
- c) 23
- d) 22
- e) None of these

Solutions:

291). $(?)^3 + \sqrt{49} = 92 \times 876 \div 2\sqrt{1296}$

$(?)^3 + 7 = 92 \times 576 \div 2 \times 36$

$(?)^3 + 7 = 92 \times 576 \div 72$

$(?)^3 + 7 = 92 \times 8$

$(?)^3 + 7 = 736$

$(?)^3 = 736 - 7 = 729$

$? = \sqrt[3]{729}$

$? = 9$

Answer: c)

292). $(?)^3 + \sqrt{8} - 340 = (\sqrt{8} \times \sqrt{8})^{(1/2)} + (9)^{(1/2)}$

$(?)^3 + \sqrt{8} - 340 = \sqrt{8} + 3$

$(?)^3 = \sqrt{8} + 3 - \sqrt{8} + 340$

$(?)^3 = 343$

$? = \sqrt[3]{343}$

$? = 7$

Answer: a)

293). $(3 \times 2)^{?+5}$

$= (15 \times 0.40)^4 \div (1080 \div 30)^4 \times (27 \times 8)^4$

$(3 \times 2)^{?+5} = (6)^4 \div (36)^4 \times (216)^4$

$(6)^{?+5} = (6)^4 \div (6^2)^4 \times (6^3)^4$

$(6)^{?+5} = (6)^{-4} \times (6)^{12}$

$? + 5 = 8$

$? = 8 - 5 = 3$

Answer: b)

294). $\sqrt{(243/3)} = \sqrt{81} = 9$

Answer: b)

295). $? = 5 \times 14 = 70$

Answer: c)

296). $\sqrt{?} = 420 \div 15$

$\sqrt{?} = 28$

$? = 784$

Answer: d)

297). $\sqrt{(?/225)} = 2$

$\sqrt{?} / \sqrt{225} = 2$

$\sqrt{?} / 15 = 2$

$\sqrt{?} = 30$

$? = (30)^2 = 900$

Answer: a)



$$8). \sqrt{217 + \sqrt{52 + \sqrt{12}}} = \sqrt{217 + \sqrt{64}}$$

$$\Rightarrow \sqrt{217 + 8} = \sqrt{225} = 15$$

$$9). \sqrt{0.04 + \sqrt{0.0025}}$$

$$= \sqrt{0.04 + \sqrt{0.05 \times 0.05}}$$

$$= \sqrt{0.04 + 0.05} = \sqrt{0.09}$$

$$= \sqrt{(0.3)^2} = 0.3$$

Answer: d)

Answer: e)

$$300). 34 / 17 = ? / 12.5$$

$$? = 25$$

Answer: b)

Directions (301-310): What approximate value should come in place of the question mark (?) in the following questions? (You are not expected to calculate the exact value.)

$$301). (24/9)^2 \times (399/39) \div (41/899) = ?$$

- a) 1600
- b) 1650
- c) 1700
- d) 1550
- e) 1750

$$302). - (4.99)^3 + (29.98)^2 - (3.01)^4 = ?$$

- a) 550
- b) 590
- c) 620
- d) 650
- e) 690

$$303). [(7.99)^2 - (13.001)^2 + (4.01)^3]^2 = ?$$

- a) -1800
- b) 1450

$$c) -1660$$

$$d) 1660$$

$$e) -1450$$

$$304). \sqrt{(675.001)} + (4.005)^3 = ?$$

- a) 84
- b) 86
- c) 90
- d) 94
- e) 87

$$305). \sqrt{(727.99950)} + (5.1961)^2 = ? \div (2/10.7960)$$

- a) 53
- b) 44
- c) 5
- d) 15
- e) 10

$$306). (72)^2 \div \sqrt[3]{(46650)} = ?$$

- a) 169
- b) 196
- c) 144
- d) 136
- e) 124

$$307). \sqrt{(6148)} - 4 \times ? = 726 \div 11$$

- a) 3
- b) 5
- c) 7
- d) 9
- e) 11

$$308). \sqrt{(5378)} \times \sqrt{(3360)} \div \sqrt{(360)} = ?$$

- a) 200
- b) 250
- c) 300
- d) 225
- e) None of these



309). $\sqrt{(624.98)} + \sqrt{(729.25)} = ?$

- a) 58
- b) 56
- c) 52
- d) 63
- e) 61

310). $\sqrt{(6550)} \div 3.005 \times 4.99901 = ?$

- a) 135
- b) 142
- c) 153
- d) 128
- e) 155

Solutions:

301). $? = (24/9)^2 \times (399/39) \div (41/899)$

$\Rightarrow ? = (24/9)^2 \times (399/39) \times (899/41)$

$\Rightarrow ? = 7.11 \times 10.23 \times 21.92$

$\Rightarrow ? = 1594.35 = 1550$ (approx.)

Answer: a)

302). $? = -(4.99)^3 + (29.98)^2 - (3.01)^4$

$\Rightarrow ? = -(5)^3 + (30)^2 - (3)^4$

$\Rightarrow ? = -125 + 900 - 81$

$\Rightarrow ? = 900 - 206$

$\Rightarrow ? = 694$

$\Rightarrow ? = 690$ (approx.)

Answer: e)

303). $[(7.99)^2 - (13.001)^2 + (4.01)^3]^2$

$\Rightarrow [(8)^2 - (13)^2 + (4)^3]^2 = ?$

$\Rightarrow [64 - 169 + 64]^2 = ?$

$\Rightarrow (-41)^2 = ?$

$\therefore ? = 1681$ ($\therefore - \times - \Rightarrow +$)

≈ 1660

Answer: d)

304). $\sqrt{(675.001)} + (4.005)^3 = ?$

$\Rightarrow ? \approx \sqrt{(26 \times 26)} + (4)^3$

$= 26 + 64 = 90$

Answer: c)

305). $\sqrt{(727.9995)} + (5.1961)^2 = ? \div (2/10.7960)$

$\Rightarrow \sqrt{729} + 5^2 \approx ? \div (2/11)$

$\Rightarrow 27 + 25 = ? \div (2/11)$

$\Rightarrow 52 \times (2/11) = ? \approx 10$

Answer: e)

306). $? = (72)^2 \div \sqrt[3]{(46650)}$

$\sqrt[3]{(46650)} \approx \sqrt[3]{(36 \times 36 \times 36)} \approx 36$

$\Rightarrow ? = [(72 \times 72)/36] = 144$

Answer: c)

307). $\sqrt{(6148)} - 4 \times ? = 726 \div 11$

78	
7	6148
49	
148	1248
	1184
	64

$\therefore \sqrt{6148} \approx 78$

$\Rightarrow 78 - 4 \times ? = (726/11) = 66$

$\Rightarrow [(78-66)/4] = ? \square ? \approx 3$

Answer: a)

308). $? \approx \sqrt{[(5400 \times 6400)/360]} = 225$

Answer: d)

309). $? = \sqrt{625} + \sqrt{729} = 25 + 27 = 52$



Answer: c)

310). $\sqrt{6550} + 3.005 \times 4.9901 = ?$

$\sqrt{6550} \approx \sqrt{(81 \times 81)} \approx 81$

Now, $81 + 3 \times 5 \approx [(81 \times 5)/3] \approx 135$

Answer: a)

311). $[(192)^2 \div 64 \times 24] \div 48 = \sqrt{?}$

a) 83000

b) 82944

c) 82954

d) 82950

e) None of these

312). $555.55 + 55.55 + 15 + 0.55 + 0.05 = ?$

a) 626.65

b) 626.50

c) 625.70

d) 626.70

e) None of these

313). $(21\% \text{ of } 1326) - (17\% \text{ of } 932) = ?$

a) 120.02

b) 206.05

c) 240.04

d) 120.20

e) None of these

314). $\sqrt{(182.25)} = ?$

a) 11.25

b) 12.5

c) 13.5

d) 14.5

e) None of these

315). $\sqrt{(1331)^{1/3}} - (343)^{1/3} = ?$

a) 2

b) 5

c) 4

d) 3

e) None of these

316). $264 \times ? \times 6 = 28512$

a) 18

b) 13

c) 16

d) 17

e) 20

317). If $x = 4$, $y = 5$ then $[(x \times x \times x \times x) / (x \times y)] = ?$

a) 16.8

b) 14.6

c) 15.4

d) 12.8

e) 10.2

318). $(18\% \text{ of } 1024) + (26\% \text{ of } ?) = 486.96$

a) 1164

b) 1248

c) 1324

d) 1150

e) 1162

319). $24 \times \{(3 / 5)^2 (4 / 8)^2 (5 / 6)^2\} = ?$

a) 1

b) 1.5

c) 2

d) 2.5

e) 3

320). $1 (2 / 3) + 2 (4 / 5) + 3 (1 / 15) = 7 (? / 15)$

a) 2

b) 4

c) 6

d) 8

e) 10



Solutions:

311. After solving this we find value = 288

$$\therefore \sqrt{(?)} = \sqrt{(288)^2} = \sqrt{(82944)}$$

Answer: b)

312. Answer: d)

$$\begin{aligned} 313. ? &= (21\% \text{ of } 1326) - (17\% \text{ of } 932) \\ &= [(21 \times 1326) / 100] - [(17 \times 932) / 100] \\ &= 278.46 - 158.44 \\ &= 120.02 \end{aligned}$$

Alternate Method:

$$\begin{aligned} ? &= (21\% \text{ of } 1326) - (17\% \text{ of } 932) \\ &= 21\% \text{ of } 17 \times 78 - 17\% \text{ of } 932 \\ &= 17\% \text{ of } (21 \times 78 - 932) \\ &= 17\% \text{ of } (1638 - 932) \\ &= 17\% \text{ of } 706 \\ &= 120.02 \end{aligned}$$

Answer: a)

$$314. ? = \sqrt{(182.25)} = \sqrt{(18225 / 100)} = (135 / 10) = 13.5$$

Answer: c)

$$\begin{aligned} 315. ? &= \sqrt{(1331)^{1/3} - (343)^{1/3}} \\ &= \sqrt{\{(11)^3\}^{1/3} - \{(7)^3\}^{1/3}} \\ &= \sqrt{(11 - 7)} = \sqrt{4} = 2 \end{aligned}$$

Answer: a)

$$316. ? = (28512 / (264 \times 6)) = 18$$

Answer: a)

$$\begin{aligned} 317. ? &= [(x \times x \times x \times x) / (x \times y)] = [x^4 / (4 \times 5)] = \\ &[(4)^4 / (4 \times 5)] = (256 / 20) = 12.8 \end{aligned}$$

Answer: d)

$$\begin{aligned} 318. [1024 \times (18 / 100)] + [? \times (26 / 100)] &= 486.96 \\ \Rightarrow [(18432 + 26 \times ?) / 100] &= 486.96 \\ \Rightarrow 26 \times ? &= 48696 - 18432 = 30264 \\ \therefore ? &= (30264 / 26) = 1164 \end{aligned}$$

Answer: a)

$$\begin{aligned} 319. ? &= 24 \times [(9 / 25) \times (16 / 64) \times (25 / 36)] = 24 \times \\ (1 / 16) &= 1.5 \end{aligned}$$

Answer: b)

$$\begin{aligned} 320. ? &= (5 / 3) + (14 / 5) + (46 / 15) = [(25 + 42 + 46) \\ / 15] &= (113 / 15) = 7 (8 / 15) \end{aligned}$$

Answer: d)

Directions (321-330): What approximate value should come in place of question mark (?) in the following questions?

$$321). (789.689 \div 25)\% \text{ of } 2160 = ? + 180.892$$

- a) 509
- b) 502
- c) 620
- d) 590
- e) 420

$$322). (17.85)^2 \times 6.05 + (43.02)^2 \times 7.99 = ?$$

- a) 15728
- b) 18728
- c) 16728
- d) 14728
- e) 12728

$$323). 67.485\% \text{ of } 6480 - (2342.87 \div 65) = ?$$

- a) 4070
- b) 4270
- c) 4770
- d) 4370
- e) 4170

$$324). 68\% \text{ of } 4096 + 17\% \text{ of } 298.878 - 1875 = (?)^2$$

- a) 21
- b) 541



c) 461

d) 31

e) 331

325). $(\sqrt{3968.659})\% \text{ of } 7300 = ? + 2086$

a) 2013

b) 2453

c) 2513

d) 2813

e) 2523

326). $1439 \div 16 \times 14.99 + \sqrt{228} = ?$

a) 1315

b) 1365

c) 1215

d) 1465

e) 1265

327). $(11.92)^2 + (16.01)^2 = ?^2 \times (3.85)^2$

a) 15

b) 2

c) 4

d) 55

e) 5

328). $(19.97\% \text{ of } 781) + ? + (30\% \text{ of } 87) = 252$

a) 40

b) 50

c) 25

d) 70

e) 80

329). $820.01 \div 21 \times 2.99 + ? = 240$

a) 105

b) 173

c) 123

d) 234

e) 143

330). $299 \div 12 \times 13.95 + ? = (24.02)^2$

a) 285

b) 225

c) 325

d) 150

e) 185

Solutions:

321. $? + 180.892 = (789.689 \div 25)\% \text{ of } 2160 \approx (790 \div 25)\% \text{ of } 2160$

$= [(31.6 \times 2160) / 100] = 682.56 \approx 683$

Or, $? \approx 683 - 181 = 502$

Answer: b)

322. $? = (17.85)^2 \times 6.05 + (43.02)^2 \times 7.99$

$\approx 320 \times 6.05 + 1849 \times 8 = 1936 + 14792$

$= 16728$

Answer: c)

323. $? \approx 68\% \text{ of } 6480 - (2342 \div 65)$

$\approx 4406.4 - 36 \approx 4370$

Answer: d)

324. $(?)^2 \approx 68\% \text{ of } 4096 + 17\% \text{ of } 298.878 - 1875$

$\approx 2785 + [(17 \times 300) / 100] - 1875$

$= 2785 + 51 - 1875 = 961$

$\therefore ? = \sqrt{(31 \times 31)} = 31$

Answer: d)

325. $? + 2086 = (\sqrt{3968.659})\% \text{ of } 7300$

$\approx [(63 \times 7300) / 100] = 4599$

$\therefore ? \approx 4599 - 2513$

Answer: c)

326. $1439 \div 16 \times 14.99 + \sqrt{(228)}$

$\approx 1440 \div 16 \times 15 + 15$

$= 90 \times 15 + 15 = 1350 + 15 = 1365$

Answer: b)

327. $?^2 \times (3.85)^2 = (11.92)^2 + (16.01)^2$

$\approx (12)^2 + (16)^2 = 144 + 256 = 400$

Or, $?^2 \times 16 \approx 400$



Or, $?^2 \approx (16 / 400) = 25$

$\therefore ? \approx \sqrt{(5 \times 5)} = 5$

Answer: e)

328. $(19.97\% \text{ of } 781) + ? + (30\% \text{ of } 87) = 252$

Or, $[(20 \times 780) / 100] + ? + [(30 \times 87) / 100] \approx 252$

Or, $? \approx 252 - 156 - 26 = 70$

Answer: d)

329. $820 \div 21 \times 3 + ? \approx 240$

Or, $39 \times 3 + ? \approx 240$

Or, $? \approx 240 - 117 = 123$

Answer: c)

330. $? \approx (24.02)^2 - 299 \div 12 \times 13.95$

$\approx 576 - 25 \times 14 = 576 - 350 = 226 \approx 225$

Answer: b)

Directions (Q. 331-340): What should come in the place of question mark (?) in the following questions?

331). $193.261 + 275.373 + 136.93 + 17.229 = ?$

a) 723.793

b) 622.793

c) 632.673

d) 593.603

e) 713.683

332). $[(43)^{37} \times (43)^{-41}] / (43)^{-6} = ?$

a) 1849

b) 2139

c) 79507

d) 43

e) None of these

333). $(53.7)^2 - (43.6)^2 = ?$

a) 970.73

b) 943.71

c) 952.33

d) 982.73

e) None of these

334). $52 \times 7 \times ? = 4004$

a) 17

b) 13

c) 11

d) 9

e) None of these

335). $76\% \text{ of } 112 - 42\% \text{ of } 116 = ?$

a) 38.12

b) 36.40

c) 42.60

d) 38.22

e) None of these

336). $(0.782)^2 - (0.218)^2 = ?$

a) 0.564

b) 1.128

c) 1.0

d) 2.256

e) 1.692

337). $\sqrt{\sqrt{(6.5536)}} = ?$

a) 3.6

b) 3.3

c) 2.8

d) 2.6

e) 1.6

338). $783.58 + 102.93 - 41.12 - 9.75 = ?$

a) 785.24

b) 835.64

c) 885.14

d) 912.84



e) None of these

339). $85943 - 71206 + 37517 - 3512 + 119 = ?$

- a) 48861
- b) 47641
- c) 47929
- d) 48781
- e) 49101

340). $((84)^2 - (44)^2) = (?)^2 - 8^2$

- a) 164
- b) 68
- c) 72
- d) 76
- e) 80

Solutions:

331. Answer: b)

332. Answer: a)

333. Use $a^2 - b^2 = (a + b)(a - b)$

Answer: d)

334. $52 \times 7 = 364$

$\therefore 364 \times ? = 4004$

$\Rightarrow ? = (4004 / 364) = 11$

Answer: c)

335. $? = [(76 \times 112) / 100] - [(42 \times 116) / 110]$

$= [(8512 - 4872) / 100] = (3640 / 100) = 36.4$

Answer: b)

336. $\therefore a^2 - b^2 = (a + b)(a - b)$

$\therefore (0.782)^2 - (0.218)^2 = (0.782 + 0.218) = 0.564$

Answer: a)

337. $\therefore (1.6)^4 = 6.5536$

$\therefore \sqrt{\sqrt{6.5536}} = 1.6$

Answer: e)

338. Answer: b)

339. Answer: a)

340. $(?)^2 - 64 = (84 + 44) \times (84 - 44) = 128 \times 40 = 5120$

$\therefore (?)^2 = 5120 + 64 = 5184$

$\therefore ? = \sqrt{5184} = 72$

Answer: c)

Directions (Q. 341 -345): What Value should come in place of question mark (?) in the following questions?

341). $(3 / 5)$ of $(2 / 7)$ of $(35 / 18)$ of $? = 405$

- a) 1375
- b) 1275
- c) 1285
- d) 1215
- e) 1325

342). 24% of 6550 – 175% of $? = 697$

- a) 500
- b) 475
- c) 675
- d) 825
- e) 975

343). $(1/7)$ of 254 of $(1/8) = ? \div 21$

- a) $96(1 / 4)$
- b) $95(1 / 7)$
- c) $98(2 / 7)$
- d) $96(3 / 7)$
- e) $95(1 / 4)$



344). $(2892 \div 12) \times 13 = ? \% \text{ of } 2410$

- a) 241
- b) 342
- c) 230
- d) 130
- e) 150

345). $[(\sqrt{(81 \times 64)} \div (4.5))] \times 18 = (?)^2 - 153$

- a) 21
- b) 23
- c) 17
- d) 19
- e) 22

Directions (Q. 346 -350): What approximate value should come in place of question mark (?) in the following questions ? (Note: you are not expected to calculate the exact value.)

346). $799.99 \div 12.492 = ? - 323.469$

- a) 380
- b) 382
- c) 388
- d) 378
- e) 372

347). $(\sqrt{728.68 \div 2.7})^2 + 224 = (18)^?$

- a) 2
- b) - 2
- c) 4
- d) - 5
- e) - 4

348). $(4429 \div 44.3) \times 18.75 - 289.59 = ?$

- a) 1485
- b) 1585
- c) 1425
- d) 1685
- e) 1365

349). $(1 / 8) \text{ of } 2768 + 2835.42 = ? - 297$

- a) 3528
- b) 3478
- c) 3472
- d) 3078
- e) 3178

350). $238.49 + 69 \% \text{ of } 791.213 = (?)^2$

- a) 27
- b) 28
- c) 30
- d) 31
- e) 29

Detailed Explanation:

341. $(3 / 5) \times (2 / 7) \times (35 / 18) \times ? = 405$

Or, $? = [(405 \times 5 \times 7 \times 18) / (3 \times 2 \times 35)] = 1215$

Answer: d)

342. $24 \% \text{ of } 6550 - 175 \% \text{ of } ? = 697$

Or, $[(24 \times 6550) / 100] - [175 \times ? / 100] = 697$

or, $[(1572 - 697) \times 100] / 175 = ?$

$\therefore ? = (87500 / 175) = 500$

Answer: a)

343. $254 \times (1 / 7) \times (1 / 8) = ? \div 21$

Or, $? = [(254 \times 21) / 56] = 95 (1 / 4)$

Answer: e)

344. $[(? \times 2410) / 100] = (2892 \div 12) \times 13$

$= 241 \times 13 = 3133$

$\therefore ? = [(3133 \times 1000) / 2410] = 130$

Answer: d)

345. $[(\sqrt{(81 \times 64)} \div (4.5))] \times 18 = (?)^2 - 153$

Or, $(9 \times 8 \div 4.5) \times 18 = (?)^2 - 153$



Or, $16 \times 18 + 153 = (?)^2$

$\therefore ? = \sqrt{(288 + 153)} = \sqrt{441} = 21$

Answer: a)

346. $? - 323.5 \approx 800 \div 12.5$

Or, $? \approx 64 + 323.5 = 387.5 \approx 388$

Answer: c)

347. $(18)^? \approx (27 \div 2.7)^2 + 224$

$= 100 + 224 = 324 \approx (18)^2$

Or, $(18)^? \approx 18^2$

$\therefore ? \approx 2$

Answer: a)

348. $? \approx (4430 \div 44.3) \times 18.75 - 290$

$= 100 \times 18.75 - 290$

$= 1875 - 290 = 1585$

Answer: b)

349. $? - 297 = (1/8) \times 2768 + 2835.42$

$\approx 346 + 2835 = 3181$

$\therefore ? = 3181 + 297 = 3478$

Answer: b)

350. $(?)^2 \approx 69\% \text{ of } 791 + 238.5$

$= [(69 \times 791) / 100] + 238.5$

$= 546 + 238.5 = 784.5 \approx 784$

$\therefore ? = \sqrt{784} = 28$

Answer: b)

Directions (Q. 351–360): What approximate value will come in place of question mark (?) in the given question? (you are not expected to calculate exact value).

351). $105.27\% \text{ of } 1200.11 + 11.80\% \text{ of } 2360.85 = 21.99\% \text{ of } ? + 1420.99$

a) 500

b) 240

c) 310

d) 550

e) 960

352). $0.98\% \text{ of } 7824 + 4842 \div 119.46 - ? = 78$

a) 30

b) 60

c) 40

d) 50

e) 70

353). $(41.99^2 - 18.04^2) - ? = 13.11^2 - 138.99$

a) 4004

b) 1200

c) 1720

d) 8432

e) 1410

354). $24.96^2 / (34.11 + 20.05) + 67.96 + 89.11 = ?$

a) 884

b) 546

c) 252

d) 424

e) 170

355). $\sqrt{(2025.11)} \times \sqrt{(256.04)} + \sqrt{(399.95)} \times \sqrt{(?)} = 33.98 \times 40.11$

a) 1682

b) 1024

c) 1582

d) 678

e) 1884

356). $\sqrt{(8938)} \times (5.96)^2 = ?$

a) 3050

b) 3780

c) 2340



d) 3400

e) 3950

357). $4734.96 - 3454.03 - 1612.96 = ? - 1611.43$

a) 1280

b) 2290

c) 1020

d) 18150

e) 1040

358). $(323 / 55) \times (971 / 251) \times (56 / 61) = ?$

a) 27

b) 9

c) 4

d) 16

e) 21

359). $133.008 \times 2.97 - 111.87 + 74.13 = ?$

a) 311

b) 234

c) 357

d) 290

e) 399

360). $32.1 \times 2799 \div 549 + 120 = ?$

a) 220

b) 284

c) 375

d) 505

e) 190

Solution:

351). $105.27\% \text{ of } 1200.11 + 11.08\% \text{ of } 2360.85 =$

$21.99\% \text{ of } ? + 1420.99$

$\Rightarrow 105\% \text{ of } 1200 + 12\% \text{ of } 2360 = 22\% \text{ of } ? + 1421$

$\Rightarrow 1260 + 2832 = 022 \times ? + 1421$

$\Rightarrow 022 \times ? = 122.2 \Rightarrow ? = (122.2 / 0.22) = 555.45$

≈ 550

Answer: d)

352). $0.98\% \text{ Of } 7824 + 4842 \div 119.46 - ? = 78$

$\Rightarrow 1\% \text{ Of } 7824 + 4842 \div 126 - 78 = ?$

$\Rightarrow ? = 7824 + 40.35 - 78 = 40.59 \approx 40$

Answer: c)

353). $(41.99^2 - 18.04^2) - ? = 13.11^2 - 138.99$

$\Rightarrow (42^2 - 18^2) - ? = 13^2 - 139$

$\Rightarrow \{(42 + 18)(42 - 18)\} - ? = 169 - 139$

$\Rightarrow \{60 \times 24\} - ? = 30$

$\Rightarrow 1440 - ? = 30 \Rightarrow ? = 1410$

Answer: e)

354). $24.96^2 / (34.11 + 20.05) + 67.96 + 89.11 = ?$

$= (25^2 / 54.16) + 67.96 + 89.11 = (625 / 54) + 67.96 + 89.11$

$= 11.5 + 68 + 89 = 168.5 \approx 170$

Answer: e)

355). $\sqrt{(2025.11)} \times \sqrt{(256.04)} + \sqrt{(399.95)} \times \sqrt{(?)} = 33.98 \times 40.11$

$\Rightarrow \sqrt{(2025)} \times \sqrt{(256)} + \sqrt{(400)} \times \sqrt{(?)} = 34 \times 40$

$\Rightarrow 45 \times 16 + 20 \times \sqrt{(?)} = 34 \times 40$

$\Rightarrow 720 + 20 \times \sqrt{(?)} = 1360$

$\Rightarrow 20 \times \sqrt{(?)} = 1360 - 720 \Rightarrow 20 \times \sqrt{(?)} = 640$

$? = (32)^2 = 1024$

Answer: b)

356). $\sqrt{(8938)} \times (5.96)^2 = ?$

$94.4 \times (6)^2 = ?$

$3402 = ?$

$? \approx 3400$

Answer: d)

357). $4734.96 - 3454.03 - 1612.96 = ? - 1611.43$

$4735 - 3454 - 1613 \approx ? - 1611$



$$4735 - 3454 - 1613 + 1611 = ?$$

$$1279 = ?$$

$$? \approx 1280$$

Answer: a)

$$358). (323 / 55) \times (971 / 251) \times (56 / 61) = ?$$

$$5.9 \times 3.88 \times 0.93 = ?$$

$$21.28 = ?$$

$$? \approx 21$$

Answer: e)

$$359). 133.008 \times 2.97 - 111.87 + 74.13 = ?$$

$$? = 133 \times 3 - 112 + 74$$

$$? = 399 - 112 + 74$$

$$? = 361 \Rightarrow ? \approx 357$$

Answer: c)

$$360). 32.1 \times 2799 \div 549 + 120 = ?$$

$$? = 32 \times 2800 \div 550 + 120$$

$$? = 32 \times 5 + 120$$

$$? = 280 \Rightarrow ? \approx 284$$

Answer: b)

Directions (Q.361–370): What approximate value should come in place of question mark (?) in the following questions? (you are not expected to calculate the exact value.)

$$361). (871\% \text{ of } 752) \div 251 = ?$$

$$a) 26$$

$$b) 38$$

$$c) 45$$

$$d) 66$$

$$e) 75$$

$$362). 0.5\% \text{ of } 349 \times 8.2\% \text{ of } 574 = ?$$

$$a) 80.5$$

$$b) 84.5$$

$$c) 89.5$$

$$d) 95.5$$

$$e) \text{ None of these}$$

$$363). 29.99\% \text{ of } 155.012 + 12.98\% \text{ of } 164.99 = ?$$

$$a) 54$$

$$b) 58$$

$$c) 64$$

$$d) 66$$

$$e) 68$$

$$364). 57\% \text{ of } 394 - 2.5\% \text{ of } 996 = ?$$

$$a) 215$$

$$b) 175$$

$$c) 200$$

$$d) 180$$

$$e) 205$$

$$365). (1.65\% \text{ of } 5471) - (0.61\% \text{ of } 8336) = ?$$

$$a) 20.15$$

$$b) 26.25$$

$$c) 31.45$$

$$d) 38.85$$

$$e) 40.35$$

$$366). 74.75\% \text{ of } 240 + 151\% \text{ of } 180 = ?$$

$$a) 390$$

$$b) 415$$

$$c) 425$$

$$d) 450$$

$$e) 465$$

$$367). 49\% \text{ of } 2647 + 27\% \text{ of } 7589 = ?$$

$$a) 4133.5$$

$$b) 3222.5$$

$$c) 2111.5$$

$$d) 1000.5$$

$$e) \text{ None of these}$$



368). 23.5% of $4924.2 + ?\%$ of $4324.4 = 1849.091$

- a) 16
- b) 18.5
- c) 36.5
- d) 46.5
- e) 52.5

369). $(296\%$ of $112) \div 73.92 = ?$

- a) 9.86
- b) 8.42
- c) 6.15
- d) 5.24
- e) 4.48

370). $(37\%$ of $1222 - 13\%$ of $1211) \div 61 = ?$

- a) 18
- b) 24
- c) 28
- d) 34
- e) None of these

Solution:

361). $? = (871\%$ of $752) + 251$

$$= (870 / 100) \times 750 \times (1 / 250) = 26.1 = 26$$

Answer: a)

362). $? = (0.5\%$ of $349) \times (8.2\%$ of $574)$

$$= (0.5\% \text{ of } 350) \times 8\% \text{ of } 575$$

$$= [(0.5 / 100) \times 350] \times [(8 / 100) \times 575]$$

$$= (1.75 \times 46) = 80.5$$

Answer: a)

363). $? = 29.99\%$ of $155.012 + 12.98\%$ of 164.99

$$= (30\% \text{ of } 155) + (13\% \text{ of } 165)$$

$$= [(30 / 100) \times 155] + [(13 / 100) \times 165]$$

$$= 46.5 + 21.45 = 67.95 \approx 68$$

Answer: e)

364). $? = (57\%$ of $394) - (2.5\%$ of $996) = ?$

$$? \approx [(57 \times 400) / 100] - [(25 \times 1000) / 1000]$$

(actual answer less than this)

$$= 228 - 25 = 203 = 200$$

Answer: c)

365). $? = (1.65\%$ of $5471) - (0.61\%$ of $8336) = ?$

$$= (1.5\% \text{ of } 5470) - (0.5\% \text{ of } 8340)$$

$$= [(1.5 / 100) \times 5740] - [(0.5 / 100) \times 8340]$$

$$= 82.05 - 41.7 \approx 40.35$$

Answer: e)

366). $(74.75\%$ of $240) + (151\%$ of $180) = ?$

$$= (75\% \text{ of } 240) + (150\% \text{ of } 180)$$

$$= [(75 / 100) \times 240] - [(150 / 100) \times 180]$$

$$= (180 + 270) = 450$$

Answer: d)

367). $? = (49\%$ of $2647) + (27\%$ of $7589) = ?$

$$= (50\% \text{ of } 2650) + (25\% \text{ of } 7590)$$

$$= [(50 / 100) \times 2650] - [(25 / 100) \times 7590]$$

$$= (1325 + 1897.5) \approx 3222.5$$

Answer: b)

368). 23.5% of $4924.2 + ?\%$ of $4324.4 = 1849.091$

$$= (? / 100) \times 4325$$

$$= 1850 - 4925 \times 23.5 / 100$$

$$= ? = 16$$

Answer: a)

369). $(296\%$ of $112) \div 73.92 = ?$

$$= (296\% \text{ of } 112) \div 74$$

$$= (296 / 100) \times 112 \times (1 / 74) \approx 4.48$$

Answer: e)

370). $? = (37\%$ of $1222 - 13\%$ of $1211) \div 61 = ?$

$$= [(37 / 100) \times 1200] - [(13 / 100) \times 1200] \times (1 / 60)$$



$$= [1200 / (100 \times 60)] \times (37 - 13) = 4.8 = 5$$

Answer: e)

Directions (371-380): What value should come in place of question mark (?) in the following questions?

371). $145 \times 34/17 + 98 = ?$

- a) 356
- b) 378
- c) 388
- d) 376
- e) 382

372). $.26/24$ of $408 + 25/46\%$ of $41400 = ?$

- a) 547
- b) 447
- c) 467
- d) 647
- e) 667

373). $\sqrt{12544} \div 64 \times ? = 43.75$

- a) 30
- b) 15
- c) 25
- d) 40
- e) None of these

374). $(5 / 3242) \times ? = 45$

- a) 29178
- b) 25936
- c) 35662
- d) 22694
- e) None of these

375). $\sqrt{7744} \times \sqrt{?} = 15488$

- a) 29843
- b) 30975
- c) 42102
- d) 39086
- e) 50807

376). $4/9$ of $3/5$ of $4500 - 2/3$ of $1/7$ of $2/9$ of $1890 = ?$

- a) 1160

b) 11980

c) 1240

d) 1460

e) 1280

377). $4/5$ of $1875 + 69\%$ of $2300 = ? - 1867$

- a) 1220
- b) 3954
- c) 4904
- d) 4954
- e) 1920

378). 32% of $6375 - 19\%$ of $5700 = (31)^2 - ?$

- a) 4
- b) 105
- c) 204
- d) 108
- e) None of these

379). $77112 \div \sqrt{?} = 54 \times 34$

- a) 2304
- b) 2116
- c) 1936
- d) 1764
- e) 1444

380). 110% of $4400 + 510\%$ of $9600 = ?$

- a) 43800
- b) 53800
- c) 43800
- d) 52800
- e) 59800

371). $? = 145 \times 34/17 + 98$

$145 \times 2 + 98 = 290 + 98 = 388$

Answer: c)

372). $? = 26/24 \times 408 + 25/4600 \times 41400$

$= 442 + 225 = 667$

Answer: e)

373). $\sqrt{12544} \div 64 \times ? = 43.75$



$$112/64 \times ? = 43.75$$

$$7/4 \times ? = 43.75$$

$$? = (43.75 \times 4) / 7 = 25$$

Answer: c)

$$374). (5/3242) \times ? = 45$$

$$? = (45 \times 3242) / 5 = 29178$$

Answer: a)

$$375). ? = \sqrt{7744} \times \sqrt{?} = 15488$$

$$\text{Or, } 88 \times \sqrt{?} = 15488$$

$$\text{Or, } \sqrt{?} = 15488/88 = 176$$

$$\text{Or, } ? = 30976$$

Answer: b)

$$376). ? = 4/9 \times 3/5 \times 4500 - 2/3 \times 1/7 \times 2/9 \times 1890$$

$$= 1200 - 40 = 1160$$

Answer: a)

$$377). ? - 1867 = (4/5) \times 1875 +$$

$$(69 \times 2300/100) = 1500 + 1587 = 3087$$

$$\text{Or, } ? = 3087 + 1867 = 4954$$

Answer: d)

$$378). (31)^2 - ? = (32 \times 6375/100) - (19 \times 5700/100)$$

$$= 2040 - 1083 = 957$$

$$\text{Or, } ? = 961 - 957 = 4$$

Answer: a)

$$379). \sqrt{?} = 77112 / (54 \times 34) = 42$$

$$? = (42)^2 = 1764$$

Answer: d)

$$380). ? = (110 / 100) \times 4400 + (510 / 100) \times 9600 =$$

$$4840 + 48960 = 53800$$

Answer: b)

Directions (Q. 381–390): What should come in place of the question mark (?) in the following questions?

$$381). 3^3 \div 3^7 \times (27)^2 \times 11.25 + 75\% \text{ of } 45 = ?$$

a) 131

b) 132

c) 133

d) 134

e) 135

$$382). 144\% \text{ of } 185 - 44\% \text{ of } 85 = 200 + ?$$

a) 37

b) 33

c) 29

d) 23

e) 17

$$383). (17.35)^2 - (8.85)^2 = 200 + ?$$

a) 13.7

b) 17.7

c) 19.7

d) 22.7

e) 26.7

$$384). (1/13) \times 3237 + (3/14) \times 5362 + 200\% \text{ of } 1 = ? + 1335$$

a) 15

b) 35

c) 55

d) 65

e) 75

$$385). (11/7) \text{ of } (5/8) \text{ of } (13/9) \text{ of } 8568 = ?$$

a) 12310

b) 12155

c) 12265

d) 12450

e) 12255



386). $200.1 \times 9.9 - 25 \times 62.5 + 12 \times 144 = ? - 26.49$

- a) 1627.98
- b) 1842.28
- c) 1958.8
- d) 1972.88
- e) 2172.98

387). $\sqrt{48} + \sqrt{80} + \sqrt{176} + \sqrt{324} - \sqrt{121} = ? + 7 +$

$4\sqrt{11}$

- a) $4(\sqrt{5} + \sqrt{7})$
- b) $6(\sqrt{3} + \sqrt{5})$
- c) $4(\sqrt{3} + \sqrt{5})$
- d) $3(\sqrt{5} + \sqrt{7})$
- e) $9(\sqrt{2} + \sqrt{3})$

388). $1265 \div 25.3 + 102 \times 98 - (23)^2 = ?$

- a) 8517
- b) 9517
- c) 8717
- d) 7087
- e) 9087

389). $\sqrt[3]{12167} + \sqrt[3]{21952}\% \text{ of } 280 - \sqrt[3]{704969}\% \text{ of } 56 = ?$

- a) 41.56
- b) 51.46
- c) 51.56
- d) 65.56
- e) None of these

390). $\{ [33 (17 / 25)] \times [34 (22 / 27)] \} + \{ [35 (28 / 52)] \times [36 (37 / 57)] \} = ?$

- a) 1853.78
- b) 3259.55
- c) 2467.59
- d) 2650.29
- e) 2475.01

Solution:

381). $? = 3^3 \div 3^7 \times (3^3)^2 \times 11.25 + [(75 \times 45) / 100]$
 $= (3)^{3+6-7} \times 11.25 + 33.75$
 $= 9 \times 11.25 + 33.75$
 $= 101.25 + 33.75 = 135$

Answer: e)

382). $[(144 \times 185) / 100] - [(44 \times 85) / 100]$
 $= 266.7 - 37.4 = 229 = 200 + 29$

Answer: c)

383). $(17.35)^2 - (8.85)^2 = (17.35 + 8.85) (17.35 - 8.85)$
 $= 2.62 \times 8.5 = 222.7$

Answer: d)

384). $(3237 / 13) + [(3 \times 5362) / 14] + [(200 \times 1) / 100]$
 $= 249 + 1149 + 2 = 1400$
 $? = 1400 - 1335 = 65$

Answer: d)

385). Answer: b)

386). $200.1 \times 9.9 - 25 \times 62.5 + 12 \times 144 = ? - 26.49$
Or, $1980.99 - 1562.5 + 1728 = ? - 26.49$
Or, $? = 1980.99 + 1728 + 26.49 - 1562.5$
 $= 3735.48 - 1562.5 = 2172.98$

Answer: e)

387). $? + 7 + 4\sqrt{11} = \sqrt{48} + \sqrt{80} + \sqrt{176} + \sqrt{324} - \sqrt{121}$

Or, $? = 4\sqrt{3} + 4\sqrt{5} + 4\sqrt{5} + 7 - 7 - 4\sqrt{11}$
 $= 4(\sqrt{3} + \sqrt{5})$

Answer: c)



388). $1265 / 25.3 + 102 \times 98 - (23)^2 = ?$

$= 50 + 9996 - 529 = 9517$

Answer: b)

389). $\sqrt[3]{12167} + \sqrt[3]{21952}\% \text{ of } 280 - \sqrt[3]{704969}\% \text{ of } 56 = ?$

$= 23 + [(28 \times 280) / 100] - [(89 \times 56) / 100]$

$= 23 + 78.4 - 49.84 = 51.56$

Answer: c)

390). $= ? \{ [33 (17 / 25)] \times [34 (22 / 27)] \} + \{ [35$

$(28 / 52)] \times [36 (37 / 57)] \}$

$= [(842 / 25) \times (940 / 27)] + [(1848 / 52) \times (2089 /$

$57)]$

$= [(842 / 25) \times (940 / 27)] + [(616 / 52) \times (2089 / 19)]$

$=$

$= 1172.562 + 1302.453$

$= 1165.14 + 1302.45 = 2475.01$

Answer: e)

Directions (Q. 391-400): What should come in place of question mark in the following questions?

391). $69\% \text{ of } 545 \div 2 = ?$

a) 178.082

b) 188.025

c) 198.075

d) 178.825

e) 168.025

392). $(9/6) \text{ of } 642 + 97\% \text{ of } 846 + (5/7) \div (9/63) = ?$

a) 1782.26

b) 1728.62

c) 1788.62

d) 1786.26

e) 18226.62

393). $(17)^2 - (18.2)^2 + (15)^2 = ?$

a) 192.72

b) 162.76

c) 162.66

d) 182.76

e) 126.96

394). $110\% \text{ of } 4400 + 510\% \text{ of } 9600 = ?$

a) 43800

b) 53800

c) 43800

d) 52800

e) 59800

395). $\sqrt[3]{(357911)} = ?$

a) 71

b) 91

c) 31

d) 81

e) 61

396). $23 \times 24 \times 25 \times 2.6 = 65\% \text{ of } ?$

a) 55240

b) 56200

c) 55200

d) 58200

e) 57240

397). $\sqrt{\sqrt{(1336336)}} = ?$

a) 34

b) 44

c) 56

d) 36

e) 54

398). $(8)^3 \div (64)^{-1} = (8)^?$

a) 1

b) 5

c) 4



d) 2

e) 6

399). $(9.6)^2 + (8.7)^2 + ? = 169.81$

a) 2.6

b) 2.296

c) 1.96

d) 2.46

e) 4.2

400). 345% of 90 + 270% of 150 = ?

a) 710.5

b) 605.5

c) 815.5

d) 715.5

e) 610.0

Solutions:

391. $? = [(69 \times 545) / (100 \times 2)] = 188.025$

Answer: b)

392. $? = (9/6) \times 642 + [(97 \times 846) / 100] + (5/7) \div (9/63)$

$= 963 + 820.62 + 5 = 1788.62$

Answer: c)

393. $? = 289 - 331.24 + 225 = 182.76$

Answer: d)

394. $? = (110 / 100) \times 4400 + (510 / 100) \times 9600 = 4840 + 48960 = 53800$

Answer: b)

395. $? = \sqrt[3]{(357911)} = \sqrt[3]{(71 \times 71 \times 71)} = 71$

Answer: a)

396. $[(? \times 65) / 100] = 23 \times 24 \times 25 \times 2.6$

$\therefore ? = [(35880 \times 100) / 65] = 55200$

Answer: c)

397. $? = \sqrt{(1336336)}^{1/2} = \sqrt{(1156)} = (1156)^{1/2} = 34$

Answer: a)

398. $8^? = (8) \div (64)^{-1} = (8)^{3+2} = 8^5$

$\therefore ? = 5$

Answer: b)

399. $(9.6)^2 + (8.7)^2 + ? = 169.81$

Or, $92.16 + 75.69 + ? = 169.81$

Or, $? = 169.81 - 167.85 = 1.96$

Answer: c)

400. $? = 345\% \text{ of } 90 + 270\% \text{ of } 150$

$= [(345 \times 90) / 100] + (270 / 100) \times 150$

$= 310.5 + 405 = 715.5$

Answer: d)

Directions (Q. 401–410): What approximate value should come in place of the question mark (?) in the following questions?

401). $(5 / 6) \times [(2 / 9) \div (4 / 9)] \div (6 / 7) = ?$

a) 0.44

b) 0.32

c) 0.49

d) 1.6

e) 0.35

402). 15% of 62.5 + 10% of 4.80 = ?

a) 14.18

b) 15.20

c) 10

d) 16

e) 18



403). $543.28 \div 55 = ?$

- a) 4
- b) 8
- c) 10
- d) 12
- e) 9

404). $[(3 / 0.8) \times (11 / 0.2)] \div [(28 / 3) \times (21 / 5)] = ?$

- a) 3
- b) 5
- c) 7
- d) 9
- e) 13

405). $(1.1)^2 + (3.2)^2 + (3.0)^2 = ?$

- a) 20
- b) 22
- c) 24
- d) 25
- e) 27

406). $(7895641 \div 2795 \div 123) \times 345 \div 456 = ?$

- a) 17
- b) 25
- c) 10
- d) 30
- e) 40

407). $3945 + 150 \times 40 - 35.5 = ?$

- a) 9000
- b) 10000
- c) 9500
- d) 9900
- e) 9950

408). $(63)^2 \times 3.545 = ?$

- a) 14070
- b) 15080

c) 13040

d) 14089

e) 15090

409). $3.5 \times 0.07 \div (1.7)^2 = ?$

- a) 4
- b) 3
- c) 1
- d) 5
- e) 2

410). $64\% \text{ of } 159.96 + 72\% \text{ of } 65.005 + (1.4)^2 - (0.4)^2 = ?$

- a) 131
- b) 141
- c) 151
- d) 161
- e) 171

Solution:

401). $? = (5 / 6) \times [(2 / 9) \div (4 / 9)] \div (6 / 7)$
 $= (5 / 6) \times [1 / 2] \times (7 / 6) = (35 / 72)$
 $= 0.486 \approx 0.49$

Answer: c)

402). $? = [(15 \times 62.5) / 100] + [(10 \times 4.80) / 100]$
 $= 9.375 + 0.48 = 9.855 \approx 10$

Answer: c)

403). $? = 543.28 / 55 = 9.8778 = 10$

Answer: c)

404). $? = (33 / 0.16) \times [5 / (28 \times 7)] = (165 / 31.36)$
 $= 5.26 \approx 5$

Answer: b)

405). $? = 1.21 + 10.24 + 9 = 20.45 \approx 20$



Answer: a)

$$406). ? = (7895641 \div 2795 \div 123) \times 345 \div 456 \\ \approx 23 \times 0.75 \approx 17$$

Answer: a)

$$407). ? = 3945 + 150 \times 40 - 35.5 \\ \approx 9945 - 35.5 = 9909.5 \approx 9900$$

Answer: d)

$$408). ? = (63)^2 \times 3.545 \\ = 3969 \times 3.545 \\ = 14070.10 \approx 14070$$

Answer: a)

$$409). ? = 3.5 \times 0.07 \div (1.7)^2 \\ = 3.5 \times 0.07 \div 2.89 \\ = 3.5 \times 0.024 \\ = 0.084 \approx 1$$

Answer: c)

$$410). ? = 64\% \text{ of } 159.96 + 72\% \text{ of } 65.005 + (1.4)^2 - (0.4)^2 \\ \approx 64\% \text{ of } 160 + 72\% \text{ of } 65 + (1.4)^2 - (0.4)^2 \\ \approx 102.4 + 46.8 + 1.96 - 0.16 \\ \approx 151.16 - 0.16 = 151$$

Answer: c)

Directions (Q.411-420): What will come in place of the question mark (?) in the following equations?

$$411). 2567 \div 17 \times 3 = ? + 180$$

- a) 51
- b) 271
- c) 273
- d) 73
- e) None of these

$$412). 7.5\% \text{ of } 140 + 2.5\% \text{ of } 80 = ?$$

- a) 12.5
- b) 18.5
- c) 145
- d) 14.5
- e) None of these

$$413). 3/5 \text{ of } 4/7 \text{ of } 7/12 \text{ of } 1375 = ?$$

- a) 185
- b) 175
- c) 285
- d) 275
- e) None of these

$$414). 32.05 \times 15 + ? = 500$$

- a) 19.75
- b) 19.25
- c) 20.75
- d) 20.25
- e) None of these

$$415). 10^{7.5} \times 5^{2.5} \times 2^{2.5} = 10^?$$

- a) 10
- b) 12.5
- c) 9.5
- d) 11.5
- e) None of these

$$416). 1 (8/9) + 3 (2/7) - 2 (1/7) + 11 (1/6) = ?$$

- a) $7 \frac{12}{223}$
- b) $14 \frac{25}{223}$
- c) $14 \frac{25}{126}$
- d) $7 \frac{11}{126}$
- e) None of these

$$417). 56\% \text{ of } 958 + 67\% \text{ of } 1008 = ?\% \text{ of } 2000$$

- a) 60.592
- b) 47.622



- c) 42.86
d) 91.455
e) None of these

418). $7^{2.3} \times 49^{4.7} \times 63^{3.4} \times 81^{5.85} = 63^?$

- a) 16.25
b) 15.1
c) 13.4
d) 18.9
e) None of these

419). $(?)^2 + (164)^2 = (307)^2 - 272$

- a) 151
b) 189
c) 211
d) 259
e) None of these

420). $\sqrt{(915849)} + \sqrt{(795664)} = (?)^2$

- a) 1849
b) 79
c) 33
d) 37
e) None of these

Explanations:

411). $2567 \div 17 \times 3 = ? + 180$

Or, $151 \times 3 = ? + 180$ or, $453 = ? + 180$

$\therefore ? = 453 - 180 = 273$

Answer: c)

412). $? = 7.5\% \text{ of } 140 + 2.5\% \text{ of } 80$

$= (75 \times 140 / 10 \times 100) + (25 \times 80 / 10 \times 100) = 10.5 + 2$

$= 12.5$

Answer: a)

413). Answer: d)

414). Answer: b)

415). $10^{7.5} \times 5^{2.5} \times 2^{2.5} = 10^{7.5} \times 10^{2.5} = 10^{10}$

Hence, the question mark (?) should be replaced by 10.

Answer: a)

416). $? = 1 (8/9) + 3 (2/7) - 2 (1/7) + 11 (1/6)$

$= (1+3+11-2) + [(8/9) + (2/7) + (1/6) - (1/7)]$

$= 13 + [(8/9) + (1/7) + (1/6)] = 14 (25/126)$

Answer: c)

417). $56\%958 + 67\% \text{ of } 1008$

$= 536.48 + 675.36 = 1211.84$

Now, $1211.84 = ?\% \text{ of } 2000$

$\therefore ? = 60.592$

Answer: a)

418). $7^{2.3} \times 49^{4.7} \times 63^{3.4} \times 81^{5.85}$

$= 7^{2.3} \times 7^{4.7} \times 7^{4.7} \times 63^{3.4} \times 9^{5.85} \times 9^{5.85}$

$= 7^{(2.3+4.7+4.7)} \times 9^{(5.85+5.85)} \times 63^{3.4}$

$= 63^{11.7} \times 63^{3.4} = 63^{15.1}$

Hence, $? = 15.1$

Answer: b)

419). $(?)^2 + (164)^2 = (307)^2 - 272$

$\therefore (?)^2 = (307)^2 - 272 - (164)^2$

$= 94249 - 272 - 26896 = 67081$

Hence, $? = \sqrt{(67081)} = 259$

Answer: d)

420). $\sqrt{(915849)} + \sqrt{(795664)} = 957 + 892 = 1849$

Now, $(?)^2 = 1849$

$\therefore ? = 43$

Answer: e)



Directions (Q. 421 – 430) : What approximate value will come in place of question mark(?) in the given questions ? (Note : you are not expected to calculate the exact value.)

421). $6399 \times 1(5/8) + 353 \div ? = 10444$

- a) 14
- b) 22
- c) 2
- d) 16
- e) 8

422). $\sqrt{(624)} \times 14.02 + \sqrt{(404)} \times 15.97 = ?$

- a) 670
- b) 570
- c) 710
- d) 510
- e) 610

423). $8461 \div 11.99 - 24.01 \div (5 / 100) = ?$

- a) 625
- b) 400
- c) 25
- d) 900
- e) 225

424). $(14.85\% \text{ of } 679) + (19.9\% \text{ of } 219.83) = ?$

- a) 115
- b) 145
- c) 65
- d) 105
- e) 85

425). $1441 \div ? + 149.98 \times 14.99 = 3006 - 254.91$

- a) 3
- b) 15
- c) 25
- d) 45

e) 5

426). $8(1 / 2) + 4(2 / 7) = 5(1 / 2) + ?$

- a) $8(1 / 7)$
- b) $6(1 / 7)$
- c) $7(2 / 7)$
- d) $5(1 / 7)$
- e) $4(2 / 7)$

427). $58.4 \times 1.5 \times 2.2 + ? = 376$

- a) 175.82
- b) 185.08
- c) 183.28
- d) 193.28
- e) 175.28

428). $(46\% \text{ of } 1250) + ? \% \text{ of } 4680 = 1183.4$

- a) 18
- b) 15
- c) 22
- d) 24
- e) 13

429). $\sqrt{2916} - \sqrt{1681} = \sqrt{?} + 9.5$

- a) 18.25
- b) 21.05
- c) 12.25
- d) 20.25
- e) 25

430). $4642 + 2368 + 14^2 - ? = 5986$

- a) 1620
- b) 1420
- c) 1120
- d) 1280
- e) 1220

Solution:



421). $6399 \times (13 / 8) + 353 \div ? = 10444$

Or, $6400 \times (13 / 8) + (353 / ?) \approx 10444$

Or, $800 \times 13 + (353 / ?) \approx 10444$

Or, $(353 / ?) = 10444 - 10400 \approx 44$

Or, $? = 353 / 44 = 8.022 \approx 8$

Answer: e)

422). $? = \sqrt{625} \times 14 + \sqrt{400} \times 16$

$\approx 25 \times 14 + 20 \times 16 = 350 + 320 = 670$

Answer: a)

423). $? = 8460 \div 12 - 24 \times (100 / 5)$

$= 705 - 24 \times 20 = 705 - 480 = 225$

Answer: e)

424). $? = [(15 \times 680) / 100] + [(20 \times 220) / 100]$

$= 102 + 44 \approx 146 \approx 145$

Answer: b)

425). $1441 \div ? + 149.98 \times 14.99$

$= 3006 - 254.91$

Or, $1441 / ? = 2751 - 150 \times 15$

$= 2750 - 2250 = 500$

$? = 1440 / 500 = 2.88 = 3$

Answer: a)

426). $8(1 / 2) + 4(2 / 7) = 5(1 / 2) + ?$

Or, $? = 8(1 / 2) + 4(2 / 7) - 5(1 / 2)$

$= (8 + 4 - 5) + (1 / 2) + (2 / 7) - (1 / 2)$

$= 7 + [(7 + 4 - 7) / 14] = 7 + (4 / 14) = 7(2 / 7)$

Answer: c)

427). $? = 376 - 58.4 \times 1.5 \times 2.2$

$= 376 - 192.72 = 183.28$

Answer: c)

428). $(? \times 4680) / 100 = 1183.4 - [(46 \times 1250) / 100]$

$= 1183.4 - 575 = 608.4$

Or, $? = (608.4 \times 100) / 4680 = 13$

Answer: e)

429). $\sqrt{?} + 9.5 = \sqrt{2916} - \sqrt{1681}$

$= 54 - 41 = 13$

Or, $\sqrt{?} = 13 - 9.5 = 3.5$

$? = 3.5 \times 3.5 = 12.25$

Answer: c)

430). $? = 4642 + 2368 + 196 - 5986$

$= 7206 - 5986 = 1220$

Answer: e)

Directions (Q. 431–440): What value should come in place of question mark (?) in the following questions?

431). $9.5 \div 1.9 \times 2.6 + 3.8 \div 1.9 \times 2.5 = ?$

a) 17

b) 18

c) 14

d) 16

e) 8

432). $5.4 \times 3.2 \times 6.2 \times (1.5)^2 = ?$

a) 133.856

b) 133.946

c) 133.546

d) 241.056

e) 135.962

433). $54\% \text{ of } 680 + 24\% \text{ of } 280 - 12\% \text{ of } 120 = ?$

a) 320

b) 520

c) 440

d) 420

e) 620

434). $78\% \text{ of } 625 + 35\% \text{ of } 450 = ? \% \text{ of } 2150$

a) 45

b) 40

c) 35

d) 50

e) 30

435). $4(5 / 2) + 5(4 / 2) + 6(3 / 2) - 9(1 / 2) = ?$



- a) $7(1/2)$
- b) $6(1/2)$
- c) $11(1/2)$
- d) $7(1/2)$
- e) $8(1/2)$

436). $\sqrt[3]{13824} + \sqrt{1849} = \sqrt[3]{9261} + \sqrt{?}$

- a) 1256
- b) 1936
- c) 2116
- d) 2456
- e) 2216

437). $(0.8) / (0.2)^2 \times (0.6)^2 = (2.4)^2 \times ?$

- a) 1.8
- b) 1.4
- c) 1.25
- d) 1.6
- e) 2.6

438). $7654.32 + 8962.81 + 3432.12 - 512.32 + 212.82 + 316.84 = ?$

- a) 20056.49
- b) 20046.79
- c) 20065.49
- d) 20066.59
- e) 20062.59

439). $812 + 912 + 516 + 241 + 346 + 329 = 12 \times ?$

- a) 263
- b) 265
- c) 326
- d) 363
- e) 236

440). $\sqrt[4]{1296} + \sqrt[4]{2401} + \sqrt[4]{6561} - \sqrt[4]{256} = ?$

- a) 14
- b) 18

- c) 22
- d) 16
- e) 15

Solution:

431). $? = 9.5 \div 1.9 \times 2.6 + 3.8 \div 1.9 \times 2.5$
 $= 5 \times 2.6 + 2 \times 2.5 = 13 + 5 = 18$

Answer: b)

432). $? = 5.4 \times 3.2 \times 6.2 \times (1.5)^2$
 $= 17.28 \times 6.2 \times 2.25 = 241.056$

Answer: d)

433). $? = (54 / 100) \times 680 + (24 / 100) \times 280 - (12 / 100) \times 120$
 $= 367.2 + 67.2 - 14.4 = 420$

Answer: d)

434). $[(? \times 2150) / 100] = [(78 \times 625) / 100] + [(35 \times 450) / 100]$

$= 487.50 + 157.5 = 645$

$\therefore ? = [(645 \times 100) / 2150] = 30$

Answer: e)

435). $? = (4 + 5 + 6 - 9) + [(5 / 2) + (4 / 2) + (3 / 2) - (1 / 2)]$

$= 6 + [(5 + 4 + 3 - 1) / 2] = 6 + (11 / 2)$

$= (6 + 5) + (1 / 2) = 11 (1 / 2)$

Answer: c)

436). $\sqrt[3]{13824} + \sqrt{1849} = \sqrt[3]{9261} + \sqrt{?}$

Or, $24 + 43 = 21 + \sqrt{?}$

Or, $\sqrt{?} = 67 - 21 = 46$

$? = 2116$

Answer: c)

437). $(0.8) \div (0.2)^2 \times (0.6)^2 = (2.4)^2 \times ?$



Or, $5.76 \times ? = (0.8 / 0.04) \times 0.36 = 20 \times 0.36 = 7.20$

$? = (7.20 / 5.76) = 1.25$

Answer: c)

438). $? = 7654.32 + 8962.81 + 3432.12 - 512.32 + 212.82 + 316.84$

$= 20066.59$

Answer: d)

439). $812 + 912 + 516 + 241 + 346 + 329 = 12 \times ?$

Or, $3156 = 12 \times ?$

Or, $? = (3156 / 12) = 263$

Answer: a)

440). $? = \sqrt[4]{1296} + \sqrt[4]{2401} + \sqrt[4]{6561} - \sqrt[4]{256}$

Or, $? = 6 + 7 + 9 - 4 = 18$

Answer: b)

Directions (Q. 441-450): What should come in the place of question mark (?) in the following questions?

441). $2(1/6) + [3(3/4) - 1(1/4)] = ?$

a) $4(5/12)$

b) $4(3/12)$

c) $4(7/12)$

d) $5(3/12)$

e) None of these

442). $36251 + 43261 = ? + 52310$

a) 27202

b) 28102

c) 29302

d) 26602

e) None of these

443). $7(3/6) \text{ of } 534 + 262 = 61800 - ?$

a) 56533

b) 57533

c) 58533

d) 37355

e) None of these

444). $72\% \text{ of } 486 - 64\% \text{ of } 261 = ?$

a) 184.66

b) 183.66

c) 188.88

d) 182.88

e) 186.24

445). $? \div 62 \times 12 = 264$

a) 1364

b) 1284

c) 1348

d) 1388

e) None of these

446). $(53)^2 + (21)^2 = (?)^2 + 157$

a) 56.628

b) 55.614

c) 53.264

d) 58.814

e) None of these

447). $65\% \text{ of } 862 + ? = 969$

a) 406.7

b) 408.7

c) 404.4

d) 405.8

e) 412.4

448). $\sqrt{(6084)} = ?$

a) 72

b) 82

c) 78

d) 88

e) 64



449). $18.88 + 88.81 + 881.828 = ?$

- a) 981.518
- b) 989.518
- c) 969.518
- d) 935.518
- e) None of these

450). $[(78 - 32)^2 / 2^3] + (2/5) \text{ of } (16020/120) = ?$

- a) 316.9
- b) 317.9
- c) 318.9
- d) 315.9
- e) None of these

Explanations:

441). $2(1/6) + 2(1/2) = 4 + [(1+3)/6] = 4 + (2/3) = 4(2/3)$

Answer: e)

442). **Answer: a)**

443). $(45/6) \text{ of } 534 + 262 = 61800 - ?$

$45 \times 89 + 262 = 61800 - ?$

$\therefore 61800 - 4267 = 57533$

Answer: b)

444). $? = [((72 \times 486)/100) - ((64 \times 261)/100)]$

$= 349.92 - 167.04 = 182.88$

Answer: d)

445). $? = (264/12) \times 62 = 1364$

Answer: a)

446). $(?)^2 = (53)^2 + (21)^2 - 157$

$= 2809 + 441 - 157 = 3093$

$(?) = \sqrt{3093} = 55.614$

Answer: b)

447). $? = 969 - [(862 \times 65)/100] = 969 - 560.3 = 408.7$

Answer: b)

448). $\sqrt{6084} = 78$

Answer: c)

449). **Answer: b)**

450). $? = [(46)^2/8] + [(2 \times 16020)/(5 \times 120)]$

$= (2116/8) + (801/15) = 264.5 + 53.4 = 317.9$

Answer: b)

Direction (Q.451-460): What approximate value should come place of the question-mark (?) in the following question (You are not expected to calculate the exact value).

451). $6,23,898 \times 99 = ? \times 60,000$

- a) 1000
- b) 1030
- c) 1050
- d) 1065
- e) 1010

452). $4/5 \times 3/7 \div 6/7 \div 5/9 = ?$

- a) 9/17
- b) 20/49
- c) 18/25
- d) 1/2
- e) 4/7

453). $399.98^2 = ?$

- a) 160000
- b) 15999
- c) 1600
- d) 1599
- e) 16000



454). $\sqrt{(624.9995) + (4.9989)^2} = ? \div (1 / 4.9900865)$

- a) 6
- b) 50
- c) 10
- d) 125
- e) 15

455). $989.001 + 1.00982 \times 76.792 = ?$

- a) 1000
- b) 1100
- c) 1065
- d) 110
- e) 100

456). $63.9872 \times 9449.8780 \div 243.0034 = (?)^2$

- a) 150
- b) 45
- c) 50
- d) 2500
- e) 2489

457). $5237.897 - 6629.010 + 7153.999 - 2205.102 = ?$

- a) 5240
- b) 4688
- c) 6340
- d) 3558
- e) 6290

458). $4985.0346 \div 215.987 - 3768.112 \div 206.868 = ?$

- a) 18
- b) 5
- c) 8
- d) 11
- e) 15

459). $\sqrt{(956240)} = ?$

- a) 979
- b) 783
- c) 647
- d) 1009
- e) 864

460). $459\% \text{ of } 849.947 + 266\% \text{ of } 6284.012 - 1486.002 = ?$

- a) 22160
- b) 15000
- c) 12640
- d) 20330
- e) 19130

Solution:

451. We have

$$6,23,898 \times 99 = ? \times 60,000$$

$$? = (6,23,898 \times 99) / 60,000$$

$$= [(623898 \times 100 - 623898) / 60,000] \approx 1030$$

Answer: b)

452. We have

$$(4/5) \times (3/7) \div (6/7) \div (5/9) = (4/5) \times (3/7) \times (7/6) \times (9/5) = (18/25)$$

Answer: c)

453. $(399.98)^2 \approx 400^2 \approx 160000$

Answer: a)

454. We have

$$\sqrt{(624.9995) + (4.9989)^2} = ? \div (1/4.9900865)$$

$$\approx \sqrt{(625) + (5)^2} = ? \div (1/5)$$

$$? \approx 1/5 (25+25) \approx 10$$

Answer: c)

455. $989.001 + 1.00982 \times 76.792$

$$\approx 990 + 1 \times 76.8 \approx 1066.8$$

Answer: c)



456. ? = $63.9872 \times 9449.8780 \div 243.0034$

$\approx 64 \times 9450 \div 243$

$\approx 64 \times 39 \approx 2496$

Now, $(?)^2 \approx 2496$

$? \approx 50$

Answer: c)

457. ? = $5237.897 - 6629.010 + 7153.999 - 2205.102$

$= 3557.784 \approx 3558$

Answer: d)

458. ? = $4985.0346 \div 215.987 - 3768.112 \div 206.868$

$\approx 4985 \div 216 - 3768 \div 207$

$\approx 23 - 18 \approx 5$

Answer: b)

459. ? = $\sqrt{956240} \approx 978$

Answer: a)

460. ? = $459\% \text{ of } 849.947 + 266\% \text{ of } 6284.012 -$

1486.002

$\approx 460\% \text{ of } 850 + 265\% \text{ of } 6285 - 1486$

$\approx 3910 + 16655 - 1486$

≈ 19079

Answer: e)

Directions (461-468): What will come in place of question mark (?) in the following questions?

461). $(17/1276) \times 326656 + ? = 9938$

a) 5586

b) 4352

c) 5685

d) 4532

e) None of these

462). $42\% \text{ of } 445 + ? \% \text{ of } 354 = 289.56$

a) 25

b) 27

c) 29

d) 31

e) None of these

463). $(3/8) \text{ of } (4/7) \text{ of } (7/9) \text{ of } 738 = ?$

a) 123

b) 132

c) 142

d) 143

e) None of these

464). $(3/5) \times (2/7) \times ? = 534$

a) 3125

b) 3525

c) 3215

d) 3318

e) None of these

465). $(99736 + 97369 + 99678 + 84767) \div (963 +$

$889 + ? + 1922) = 65$

a) 2096

b) 1998

c) 2192

d) 2022

e) None of these

466). $7(1/17) \times 3485 + 9(1/18) \times 2430 = ?$

a) 44290

b) 46285

c) 42485

d) 46605

e) 43470

467). $117\% \text{ of } 271 + 72\% \text{ of } 982 = ?$

a) 1011.21

b) 1124.11



- c) 1042.11
- d) 1044.19
- e) 1024.11

468). $(70)^3 \times (4)^3 \div (80)^2 = ?$

- a) 3230
- b) 3030
- c) 3440
- d) 3280
- e) 3430

Directions (469-470): What approximate value should come in place of question mark (?) in the following questions?

469). $(47.12)^{7.5} \div (46.99)^{3/2} \times (46.998)^{-3} = (\sqrt{46.95})^{1/4} \times (\sqrt{47.13})^?$

- a) 27/4
- b) 21/5
- c) 21/4
- d) 23/4
- e) 29/4

470). $[(3.1/8.01) \times (11.01/1.99)] \div [(27.9/3) \times (21/4.9)]$ % of 4424.99 = ?

- a) 1
- b) 2
- c) 6
- d) 4
- e) 5

Solutions:

Questions (461-470):

461. $(17/1276) \times 326656 + ? = 9938$ or, $17 \times 256 + ? = 9938$ or, $4352 + ? = 9938$

Or, $? = 9938 - 4352 = 5586$

Answer: a

462. $(42 \times 445)/100 + (? \times 354)/100 = 289.56$

Or, $186.9 + (354 \times ?)/100 = 289.56$ or, $-186.9 + 289.56 = (354 \times ?)/100$

Or, $? = (102.66 \times 100)/354$

$\therefore ? = 29$

Answer: c

463. $? = (3/8) \times (4/7) \times (7/9) \times 738 = 123$

Answer: a

464. $(3/5) \times (2/7) \times ? = 534$

$\therefore ? = (534 \times 35)/6 = 3115$

Answer: e

465. $(99736 + 97369 + 99678 + 84767) \div (963 + 889 + ?1922) = 65$

Or, $381550 \div (3774 + ?) = 65$ or, $3774 + ? = (381550/65)$

Or, $3774 + ? = 5870$ or, $? = 2096$

Answer: a

466. $? = (120/17) \times 3485 + (163/18) \times 2430 = 24600 + 22005 = 46605$

Answer: d

467. $? = (117 \times 271 + 72 \times 982)/100 = (31707 + 70704)/100 = 1024.11$

Answer: e

468. $? = [((70)^3 \times (4)^3)/(80)^2] = 3430$

Answer: e

469. $? = (47)^{7.5} \div (4.7)^{1.5} \times (47)^{-3} = (\sqrt{47})^{1/4} \times (\sqrt{47})^?$

Or, $(47)^3 = (47)^{(1/8 + ?/2)}$ or, $(1/8) + (?/2) = 3$ or, $(?/2) = 3 - (1/8) = (24-1)/8 = (23/8)$

$\therefore ? = (23/4)$



Answer: d

$$470. ? = [(3/8) \times (11/2)] \div [(28/3 \times (21/5)) \times (1/100) \times 4425 = 2.328 \approx 2$$

Answer: b

Directions (471-480): What value should come in place of question mark (?) in the following questions?

$$471). 188.88 + 8.88 + 288.8 + 888.8 - 40.888 = ?$$

- a) 1372.477
- b) 1378.469
- c) 1349.455
- d) 1334.472
- e) 1346.465

$$472). 145 \times 34 / 17 + 98 = ?$$

- a) 356
- b) 378
- c) 388
- d) 376
- e) 382

$$473). 78(2/3) + 39(11/19) + 143(5/6) + 33(1/3) = ?$$

- a) 290(30/112)
- b) 292(35/117)
- c) 285(37/116)
- d) 297(47/114)
- e) 295(47/114)

$$474). (970/17) \times (289/15) \times (18/1.5) = 1649 \times ?$$

- a) 4
- b) 5
- c) 6
- d) 2
- e) 8

$$475). 91\% \text{ of } 877 + 23\% \text{ of } 472 = ?$$

- a) 911.38
- b) 910.54
- c) 915.68
- d) 906.63
- e) 904.71

$$476). \sqrt{6084} + \sqrt{7744} - \sqrt{2025} = (?)^2$$

- a) 13
- b) 14
- c) 11
- d) 9
- e) 10

$$477). 76 \times 34 + 55 \times 29 - 23 \times 11 = ?$$

- a) 3825
- b) 3925
- c) 3926
- d) 3826
- e) 3928

$$478). ? \times 36 + 38 = (11)^2 + (13)^2$$

- a) 11
- b) 7
- c) 9
- d) 6
- e) 8

$$479). \sqrt{16641} + \sqrt{14641} = ?$$

- a) 250
- b) 252
- c) 248
- d) 246
- e) 245

$$480). (112)^2 - (120)^2 + (24)^2 = ? - 2860$$

- a) 1240
- b) 1340
- c) 1380



d) 1840

e) 1580

Solutions:

$$471). ? = 188.88 + 8.88 + 288.8 + 888.8 - 40.888 = 1334.472$$

Answer: d)

$$472). ? = 145 \times 34 / 17 + 98 \\ = 145 \times 2 + 98 = 290 + 98 = 388$$

Answer: c)

$$473). ? = 78(2/3) + 39(11/19) + 143(5/6) + 33(1/3) \\ = (78 + 39 + 143 + 33) + [(2/3) + (11/19) + (5/6) + (1/3)] \\ = 293 + [(76 + 66 + 95 + 38) / 114] \\ = 293 + (275 / 114) = (293 \times 114 + 275) / 114 = 295(47/114)$$

Answer: e)

$$474). ? \times 1649 = (970/17) \times (289/15) \times (18/1.5) = 13192 \\ \therefore ? = (13192 / 1649) = 8$$

Answer: e)

$$475). ? = 91\% \text{ of } 877 + 23\% \text{ of } 472 \\ = [877 \times (91/100)] + [472 \times (23/100)] = 798.07 + 108.56 \\ = 906.63$$

Answer: d)

$$476). (?)^2 = \sqrt{6084} + \sqrt{7744} - \sqrt{2025} \\ = 78 + 88 - 45 = 121 = (11)^2 \\ \therefore ? = 11$$

Answer: c)

$$477). ? = 76 \times 34 + 55 \times 29 - 23 \times 11 \\ = 2584 + 1595 - 253 = 3926$$

Answer: c)

$$478). ? \times 36 + 38 = (11)^2 + (13)^2 \\ \text{Or, } ? \times 36 + 38 = 121 + 169 = 290$$

$$\text{Or, } ? \times 36 = 290 - 38$$

$$\therefore ? = (252 / 36) = 7$$

Answer: b)

$$479). ? = \sqrt{16641} + \sqrt{14641} \\ = 129 + 121 = 250$$

Answer: a)

$$480). ? - 2860 = (112)^2 - (120)^2 + (24)^2 \\ = 12544 - 14400 + 576 \\ \text{Or, } ? = 13120 + 2860 - 14400 \\ = 15980 - 14400 = 1580$$

Answer: e)

Directions (481-490): What will come in place of question mark (?) in the following questions?

$$481). 4/5 \text{ of } 1875 + 69\% \text{ of } 2300 = ? - 1867$$

- a) 1220
- b) 3954
- c) 4904
- d) 4954
- e) 1920

$$482). \sqrt[3]{2744} \times 18 + ? \times 20.5 = 1892$$

- a) 90
- b) 70
- c) 80.5
- d) 78
- e) 80

$$483). 4.544 + 54.466 + 8.66 - 13.28 = ?$$

- a) 50.39
- b) 67.67
- c) 54.39
- d) 54.93
- e) 45.39

$$484). 3/7 \text{ of } (427/51) \div 68 \text{ of } (602/1156) = ?$$



- a) 61
- b) 61/602
- c) 602/61
- d) 34/61
- e) None of these

485). $18\% \text{ of } 265 + 36\% \text{ of } 360 = (?)^2 - 18.7$

- a) 12
- b) 13.8
- c) 14
- d) 12
- e) None of these

486). $3(2/7) + 4(1/14) + 8(3/7) = 9(5/14) + ?$

- a) $4(1/14)$
- b) $6(2/7)$
- c) $6(3/7)$
- d) $6(5/7)$
- e) $5(3/7)$

487). $(23 \times 57 \times ?) / (19)^3 = 69$

- a) 19
- b) 361
- c) 324
- d) 461
- e) 180

488). $(79)^2 - (32)^2 = ?$

- a) 5017
- b) 5171
- c) 5127
- d) 5217
- e) 5317

489). $32\% \text{ of } 6375 - 19\% \text{ of } 5700 = (31)^2 - ?$

- a) 4
- b) 105
- c) 204

- d) 108
- e) None of these

490). $(1973 - 1483) / ? = 2.5$

- a) 176
- b) 196
- c) 186
- d) 195
- e) 194

Solution:

481). $? - 1867 = (4/5) \times 1875 + (69 \times 2300 / 100) = 1500 + 1587 = 3087$
Or, $? = 3087 + 1867 = 4954$

Answer: d)

482). $? \times 20.5 = 1892 - \sqrt[3]{2744} \times 18 = 1892 - 14 \times 18 = 1892 - 252 = 1640$
 $\therefore ? = (1640 / 20.5) = 80$

Answer: e)

483). $? = 4.544 + 54.466 + 8.66 - 13.28 = 67.67 - 13.28 = 54.39$

Answer: c)

484). $? = (3/7) \times (427/51) \div 68 \times (602/1156)$
 $= (61/17) \div 68 \times (602/1156) = (61/17) \times (17/602) = (61/602)$

Answer: b)

485). $(?)^2 - 18.7 = 18 \times 2.65 + 36 \times 3.60 = 47.7 + 129.6 = 177.3$
Or, $(?)^2 = 177.3 + 18.7 = 196$
 $\therefore ? = \sqrt{196} = 14$

Answer: c)

486). $? = (3 + 4 + 8 - 9) + (2/7 + 1/14 + 3/7 - 5/14)$
 $= 6 + (4 + 1 + 6 - 5/14) = 6(6/14) = 6(3/7)$



Answer: c)

487). $? = (69 \times 19 \times 19 \times 19) / (57 \times 23) = 361$

Answer: b)

488). $? = (79)^2 - (32)^2$

$= (79+32) (79-32) = 111 \times 47 = 5217$

Answer: d)

489). $(31)^2 - ? = (32 \times 6375/100) - (19 \times 5700/100)$

$= 2040 - 1083 = 957$

Or, $? = 961 - 957 = 4$

Answer: a)

490). $(1973 - 1483) / ? = 2.5$ or, $? = (490/2.5) = 196$

Answer: b)

Directions (Q.491-500): What will come in place of question mark (?) in the given questions?

491). $120\% \text{ of } 750 \div 25 - 16 = ? \% \text{ of } 1240 \div 31$

- a) 25
- b) 30
- c) 20
- d) 45
- e) 50

492). $2/5 \div 1 (1/15) - 1/4 = ? - 2/3$

- a) $19/24$
- b) $4/5$
- c) $7/24$
- d) $5/12$
- e) $12/25$

493). $1.5\% \text{ of } 4600 + 2.8\% \text{ of } 2000 - 109 = ?$

- a) 32
- b) 28
- c) 12
- d) 16

e) 24

494). $452 + 312 \div 13 = 34 \times ?$

- a) 18
- b) 32
- c) 26
- d) 28
- e) 14

495). $(256)^{1/4} \div 1 (3/5) - (3/5) = ?$

- a) $5 (7/10)$
- b) $3 (5/8)$
- c) $1 (9/10)$
- d) $1 (3/5)$
- e) $2 (4/5)$

496). $[8 \times 16 \div 256 \times 512] \div 2^? = 1$

- a) -5
- b) -6
- c) 6
- d) 8
- e) 7

497). $1/5 \text{ of } 11/13 \text{ of } 39/55 \text{ of } 1200 = 562 - ?$

- a) 520
- b) 326
- c) 364
- d) 432
- e) 418

498). $59 - 2\sqrt{5} \times 3\sqrt{5} = 72 - ?$

- a) 36
- b) 30
- c) 52
- d) 43
- e) 49

499). $(\sqrt{6400} - \sqrt{625}) \div 11 = ?$



- a) 2
- b) 5
- c) 14
- d) 10
- e) 3

500). $(1472/?) + (2925/9) = 965$

- a) 2.3
- b) 4.8
- c) 5.2
- d) 3.6
- e) 1.5

Solutions:

491). $(120 \times 750) / 100 \div 25 - 16 = (? \times 1240) / 100 \div 31$

or, $900 \div 25 - 16 = ? \times 12.40 / 31$

Or, $31(36 - 16) = ? \times 12.40$

or, $? \times 12.40 = 31 \times 20 = 620$

$\therefore ? = 620 / 12.40 = 50$

Answer: e)

492). $? - 2/3 = (2/5) \div (16/15) - 1/4 = 2/5 \times 15/16 -$

$1/4 = 3/8 - 1/4 = 3 - 2/8 = 1/8$

Or, $? = 1/8 + 2/3 = 3 + 16/24 = 19/24$

Answer: a)

493). $? = (1.5 \times 4600) / 100 + (2.8 \times 2000) / 100 - 109$

$= 69 + 56 - 109 = 125 - 109 = 16$

Answer: d)

494). $452 + 312 \div 13 = 34 \times ?$

Or, $? = (452 + 24) / 34$

$= 476 / 34 = 14$

Answer: e)

495). $? = (256)^{1/4} \div 1 (3/5) - (3/5)$

$= 4^{4 \times 1/4} \div 8/5 - 3/5$

$= 4 \times 5/8 - 3/5 = 5/2 - 3/5$

$= (25 - 6) / 10$

$= 19/10 = 1(9/10)$

Answer: c)

496). $[((8 \times 16) / 250) \times 512] \div 2^? = 1$ or, $32 \times 8 / 2^? = 1$ or,

$2^? = 32 \times 8 = 2^5 \times 2^3 = 2^8$

$\therefore ? = 8$

Answer: d)

497). $(1/5) \times (11/13) \times (39/55) \times 1200 = 562 - ?$

Or, $3 \times 48 = 562 - ?$

Or, $? = 562 - 144 = 418$

Answer: e)

498). $72 - ? = 59 - 2\sqrt{5} \times 3\sqrt{5}$

$= 59 - 2 \times 3 \times 5$

$= 59 - 30 = 29$

or, $? = 72 - 29 = 43$

Answer: d)

499). $? = (\sqrt{6400} - \sqrt{625}) \div 11$

$= (80 - 25) / 11 = 55 / 11 = 5$

Answer: b)

500). $(1472/?) + (2925/9) = 965$

or, $1472/? = 965 - 325 = 640$

$\therefore ? = 1472 / 640 = 2.3$

Answer: a)

Directions (Q.501-505): What approximate value will come in place of the question-mark (?) in the following questions? (You are not expected to calculate the exact value).

501). $10^3 \times 100^3 + 999999999 = 10^? + 10^?$

a) 6, 9

b) 9, 9



- c) 6, 12
- d) 16, 9
- e) 6, 18

502).134% of 3894+38.94% of 134=?

- a) 5000
- b) 5800
- c) 5500
- d) 5270
- e) 4900

503). (21+99) × (30-19.02) =?

- a) 3581
- b) 131
- c) 1290
- d) 1600
- e) 1320

504). $(\frac{2}{3}) \times (\frac{6}{8}) \times (\frac{2}{3}) \times (\frac{3}{5}) = ?$

- a) 0.45
- b) 0.5
- c) 1.45
- d) 0.2
- e) 0.55

505). $\sqrt{1000000.0000001} = ?$

- a) 1000
- b) 100
- c) 10000
- d) 999
- e) 99

Directions (Q. 506-510): What approximate value should come in place of the question-mark (?) in the following questions? (You are not expected to calculate the exact value).

506).59.99% of 255.012+22.98% of 182.005=?

- a) 162
- b) 146
- c) 195
- d) 225
- e) 178

507). $\sqrt{1000} = ?$

- a) 10
- b) 24
- c) 45
- d) 18
- e) 32

508).15.002×? × 25.0210=7113.918

- a) 19
- b) 26
- c) 11
- d) 31
- e) 35

509). $8^{1.38} \times 8^{1.63} = ?$

- a) 680
- b) 218
- c) 726
- d) 512
- e) 134

510).12×958÷17=?

- a) 532
- b) 676
- c) 765
- d) 483
- e) 806

Solutions:

501).Here, $10^3 \times 100^3 + 999999999$
 $= 10^3 \times 10^6 + 10^9$
 $= 10^{3+6} + 10^9$



$$=10^9+10^9$$

Therefore, question mark will be replaced by 9.

Answer: b)

$$502).134\% \text{ of } 3894 + 38.94\% \text{ of } 134$$

$$=134\% \text{ of } 3894 + 38.94\% \text{ of } 134$$

$$=134\% \text{ of } 3894 + 1.34\% \text{ of } 3894$$

$$=135.34\% \text{ of } 3894$$

$$=5270.1396$$

$$=5270$$

Answer: d)

$$503). (21+99) \times (30-19.02)$$

$$=120 \times 10.98$$

$$=120 \times 11 = 1320$$

Answer: e)

$$504). (2/3) \times (6/8) \times (2/3) \times (3/5) = 72 / (72 \times 5)$$

$$=1/5 = 0.2$$

Answer: d)

$$505). \sqrt{1000000.0000001} = \sqrt{1000000} = 1000$$

Answer: a)

$$506). 59.99\% \text{ of } 255.012 + 22.98\% \text{ of } 182.005$$

$$\approx 60\% \text{ of } 255 + 23\% \text{ of } 182$$

$$\approx 153 + 41.86$$

$$\approx 194.86$$

Answer: c)

$$507). \sqrt{1000} = \sqrt{10 \times 10 \times 10} = 10\sqrt{10}$$

$$\approx 10 \times 3.16$$

$$\approx 31.6$$

Answer: e)

$$508). 15.002 \times ? \times 25.0210 = 7113.918$$

$$\therefore ? = 7113.918 / (15.002 \times 25.0210)$$

$$\approx 7100 / 15 \times 25 \approx 18.93$$

Answer: a)

$$509). 8^{1.38} \times 8^{1.63} = 8^{1.38+1.63}$$

$$= 8^{3.01} \approx 8^3 \approx 512$$

Answer: d)

$$510). 12 \times 958 \div 17 \approx 676$$

Answer: b)

Directions (Q.511-515): What will come in place of question mark (?) in the following questions?

$$511). 455(34/29) + 189(31/58) + 329(47/58) - 468(59/116) + 529(22/29) - 220 = ?$$

$$a) 738(231/209)$$

$$b) 816(89/116)$$

$$c) 647(321/172)$$

$$d) 814(111/116)$$

$$e) 660(321/151)$$

$$512). \sqrt[3]{9604} + (474552)^{1/3} - (6084)^{1/2} + (405224)^{1/3} - \sqrt{5476} + \sqrt[3]{12167} = ?$$

$$a) 119$$

$$b) 201$$

$$c) 121$$

$$d) 117$$

$$e) 205$$

$$513). (25)^{5.4} \times (625)^{2.7} \times (18)^{2.4} \times (324)^{4.2} = ?$$

$$a) (450)^{10.8}$$

$$b) (430)^{10.8}$$

$$c) (250)^{3.8}$$

$$d) (350)^{9.5}$$

$$e) (380)^{9.5}$$

$$514). (64)^{0.15} \times (32)^{0.02} \times (144)^{0.38} \times (1728)^{0.08} = ?$$

$$a) 27$$



- b) 25
- c) 23
- d) 24
- e) 22

515). $\frac{3}{5}$ of $1275 + 65\%$ of $750 = ? + 1162.5$

- a) 7
- b) 18
- c) 90
- d) 23
- e) 25

516). 36 of $6 \div 6 \times 10 - 5 + 15 = ?$

- a) 270
- b) 210
- c) 390
- d) 310
- e) 370

517). $312130 \div 49 \div 65 = ?$

- a) 98
- b) 78
- c) 68
- d) 88
- e) 90

518). $\sqrt[3]{1367631} \times \sqrt[3]{148877} + \sqrt[3]{250047} - \sqrt[3]{140608}$

- a) 5585
- b) 5764
- c) 5894
- d) 4996
- e) 6336

519). $1.11 \times 22.2 \times 33.6 + 18.6 - 24.5712 = ?$

- a) 834
- b) 822
- c) 835
- d) 847

e) 936

520). 85% $9200 - 96\%$ of $4100 = ?$

- a) 3884
- b) 3766
- c) 3894
- d) 3784
- e) 5882

Solutions:

$$\begin{aligned} 511). ? &= (455 + 189 + 329 - 468 + 529 - 220) + [(34/29) + (31/58) + (47/58) + (22/29) - (59/116)] \\ &= 814 + [(34 \times 4) + (31 \times 2) + (47 \times 2) + (22 \times 4) - 59] / 116 \\ &= 814 + (136 + 62 + 94 + 88 - 59) / 116 \\ &= 814 + (321/116) = 814(321/116) \\ &= (814 \times 2) + 89/116 \\ &= 816(89/116) \end{aligned}$$

Answer: b)

$$512). ? = \sqrt{9604} + (474552)^{1/3} - (6084)^{1/2} + (405224)^{1/3} - \sqrt{5476} + \sqrt[3]{12167}$$

$$= 98 + 78 - 78 + 74 - 74 + 23 = (98 + 23) = 121$$

Answer: c)

$$513). ? = 25^{5.4} \times (625)^{2.7} \times (18)^{2.4} \times (324)^{4.2}$$

$$= (25)^{5.4} \times (25)^{2 \times 2.7} \times (18)^{2.4} \times (18)^{2 \times 4.2}$$

$$= (25)^{5.4 + 5.4} \times (18)^{2.4 + 8.4}$$

$$= (25 \times 18)^{10.8}$$

$$= (450)^{10.8}$$

Answer: a)

$$514). ? = (64)^{0.15} \times (32)^{0.02} \times (144)^{0.38} \times (1728)^{0.08}$$

$$= 2^{6 \times 0.15} \times 2^{5 \times 0.02} \times 12^{2 \times 0.38} \times 12^{3 \times 0.08}$$

$$= 2^{0.9} \times 2^{0.1} \times 12^{0.76} \times 12^{0.24}$$

$$= 2^{0.9 + 0.1} \times 12^{0.76 + 0.24} = 2^1 \times 12^1 = 24$$

Answer: d)

$$515). ? + 1162.5 = (3/5) \times 1275 + (65 \times 750) / 100$$



$$=765+487.5=1252.5$$

$$\therefore ? =1252.5-1162.5=90$$

Answer: c)

$$516). ? =36 \times 6 \div 6 \times 10 - 5 + 15$$

$$= (36 \times 6) / 6 \times 10 - 5 + 15$$

$$=360-5+15$$

$$=375-5=370$$

Answer: e)

$$517). ? = (312130 / (49 \times 65)) = 312130 / 3185 = 98$$

Answer: a)

$$518). \sqrt[3]{1367631} = 111$$

$$\sqrt[3]{148877} = 53$$

$$\sqrt[3]{250047} = 63$$

$$\text{And, } \sqrt[3]{140608} = 52$$

$$\therefore ? = 111 \times 53 + 63 - 52$$

$$= 5883 + 63 - 52$$

$$= 5949 - 52 = 5897$$

Answer: c)

$$519). ? = (1.11 \times 22.2 \times 33.6) + 18.9 - 24.5$$

$$= (827.9712) + 18.6 - 24.5712$$

$$= 846.5712 - 24.5712 = 822$$

Answer: b)

$$520). 85\% \text{ of } 9200 = (85 \times 9200) / 100 = 7820$$

$$96\% \text{ of } 4100 = (96 \times 4100) / 100 = 3936$$

$$\therefore ? = 85\% \text{ of } 9200 - 96\% \text{ of } 4100 = 7820 - 3936 = 3884$$

Answer: a)

Directions (Q.521-530): What should come in place of question mark (?) in the following questions?

$$521). \sqrt{(7.84 \times 10.24)} = ?$$

a) 12.48

b) 10.12

c) 9.64

d) 8.96

e) 8.24

$$522). 73174 - 29617 + 43156 - 31619 = ?$$

a) 55094

b) 54684

c) 53874

d) 52124

e) None of these

$$523). \sqrt{2209 \times 11.5} = ?$$

a) 544.5

b) 542.5

c) 540.5

d) 538.5

e) 536.5

$$524). (192 \times 267 \times 357) \div (2 \times 3 \times 6 \times 7) = ?$$

a) 70184

b) 72624

c) 74484

d) 76364

e) None of these

$$525). 319.24 - 106.89 + 431.65 - 240.33 = ?$$

a) 407.67

b) 421.27

c) 403.67

d) 424.57

e) None of these

$$526). 48\% \text{ of } 1735 + 36\% \text{ of } 1545 = ?$$

a) 1184

b) 1216

c) 1278

d) 1324



e) 1389

527). $\sqrt{(1.96 + \sqrt{23.04})} = ?$

- a) 3.8
- b) 3.4
- c) 2.8
- d) 2.6
- e) None of these

528). $0.748 \div 0.044 = 20\%$ of ?

- a) 125
- b) 105
- c) 85
- d) 65
- e) 45

529). $658 \times ? \times 8 = 94752$

- a) 14
- b) 16
- c) 18
- d) 22
- e) 24

530). $17^2 + 23^2 = \sqrt{?}$

- a) 1600
- b) 274576
- c) 374544
- d) 669124
- e) None of these

Detailed Solutions:

521). $\sqrt{7.84 \times 10.24} = 2.8 \times 3.2 = 8.96$

Answer: (d)

522). $73174 + 43156 - 29617 - 31619 = 116330 - 6236 = 55094$.

Answer: (a)

523). $? = \sqrt{2209 \times 11.5} = 47 \times 11.5 = 540.5$

Answer: (c)

524). $? = (192 \times 267 \times 357) \div (2 \times 3 \times 6 \times 7) = 72624$

Answer: (b)

525). $? = 319.24 + 431.65 - 106.89 - 240.33 = 750.89 - 347.22 = 403.67$

Answer: (c)

526). $? = [(48 \times 1735) \div 100] + [(36 \times 1545) \div 100] = 832.8 + 556.2 = 1389$

Answer: (e)

527). $? = \sqrt{(1.96 + \sqrt{23.04})} = \sqrt{1.96 + 4.8} = \sqrt{6.76} = 2.6$

Answer: (d)

528). 20% of $? = 0.748 \div 0.044 = 17$ or, $? = (17 \times 100) \div 20 = 85$

Answer: (c)

529). $658 \times ? \times 8 = 94752$

$\therefore ? = 94752 \div (658 \times 8) = 18$

Answer: (c)

530). $\sqrt{?} = 289 + 529 = 818$

$\therefore ? = (818)^2 = 669124$

Answer: (d)

Directions (Q.531-540): What will come in place of question mark (?) in each of the following questions?

531). $4003 \times 66 - 21015 = ? \times 3$

- a) 81061
- b) 8161
- c) 9205
- d) 80164



e) 80161

532). $(6\sqrt{7}+\sqrt{7})(4\sqrt{7}+8\sqrt{7}) - (19)^2=?$

- a) 250
- b) 275
- c) 227
- d) 310
- e) 327

533). $(5555/50) + (645/25) + 3991/26=?$

- a) 290.40
- b) 315.45
- c) 264
- d) 310
- e) 390.4

534). $\sqrt{33489} \times \sqrt{2601} - (83)^2 = (?)^2 + (37)^2$

- a) 990
- b) 1075
- c) 1010
- d) 1125
- e) None of these

535). $5(27/37) \times 4(51/52) \times 11(1/7) + 2(3/4) = ?$

- a) 283.75
- b) 310.25
- c) 320.75
- d) 340
- e) None of these

536). $\sqrt{930.25} + \sqrt{1482.25} - 45\% \text{ of } 180 + 46.5 = \sqrt{?}$

- a) 1180.25
- b) 1390.25
- c) 1190.25
- d) 1290.75
- e) 1490.25

537). $79\% \text{ of } 790 + 1/3 \text{ of } 675/0.5=?$

a) 1074.1

b) 984.21

c) 1284.21

d) 1181.1

e) 971.1

538). $[(1728)^{0.6} / (144)^{0.3} \times (0.0144)^{0.4}] / (10)^{0.4} = (?)^2$

- a) 1.1
- b) 1.8
- c) 2
- d) 1.2
- e) 3

539). $174\% \text{ of } 445 + 9\% \text{ of } 167 + \sqrt{1521}=?$

- a) 728.43
- b) 828.33
- c) 448.63
- d) 653.63
- e) 1028.73

540). $19(1/7) + 26(2/3) - 9(1/3) + 5(1/7) = ?$

- a) $42(13/21)$
- b) $31(13/21)$
- c) $42(1/7)$
- d) $33(1/3)$
- e) $41(13/21)$

Solutions:

531). $(4000+3) \times 66 - 21015 = ? \times 3$

or, $? = (264198 - 21015) / 3 = 81061$

Answer: (a)

532). $? = (6\sqrt{7}+\sqrt{7})(4\sqrt{7}+8\sqrt{7}) - (19)^2$

$$= 24 \times 7 + 48 \times 7 + 4 \times 7 + 8 \times 7 - (19)^2$$

$$= 168 + 336 + 28 + 56 - 361 = 227$$

Answer: (c)

533). $? = (5555/50) + 645/25 + 3991/26$



$$=111.1+25.8+153.5=290.4$$

Answer: (a)

$$534). \sqrt{33489} \times \sqrt{2601} - (83)^2 = (?)^2 + (37)^2$$

$$\text{or, } 183 \times 51 - 6889 = (?)^2 + 1369$$

$$\text{Or, } 9333 - 6889 = (?)^2 + 1369 \text{ or,}$$

$$(?)^2 = 2444 - 1369 = 1075$$

$$\therefore ? = \sqrt{1075} = \sqrt{25 \times 43} = 5\sqrt{43}$$

Answer: (e)

$$535). ? = (212/37) \times (259/32) \times (78/7) + (11/4)$$

$$= 318 + (11/4) = 320.75$$

Answer: (c)

$$536). \sqrt{?} = \sqrt{930.25} + \sqrt{1482.25} - (45 \times 180)/180 + 46.5$$

$$= 30.5 + 38.5 - 45 \times 1.8 + 46.5 = 115.5 - 81 = 34.5$$

$$\therefore ? = 34.5 \times 34.5 = 1190.25$$

Answer: (c)

$$537). ? = [(790 \times 790)/100] + (1/3) \times (675/0.5)$$

$$= 624.1 + 450 = 1074.1$$

Answer: (a)

$$538). (?)^2 = [(1728)^{0.6} / (144)^{0.3} \times (0.0144)^{0.4}] / (10)^{0.4}$$

$$= [(12)^{1.8} / (12)^{0.6} \times (0.12)^{0.8}] / (10)^{0.4}$$

$$= [(12)^{1.8} / (12)^{0.6} \times (12)^{0.8}] / (10)^{0.4} \times (10)^{1.6}$$

$$= (12)^{1.8-0.6+0.8} / (10)^{0.4+1.6} = (12)^2 / 10^2$$

$$\text{Or, } ? = \sqrt{[12/10]^2} = 12/10 = 1.2$$

Answer: (d)

$$539). ? = [(174 \times 445)/5] + [(9 \times 167)/100] + 39$$

$$= 774.3 + 15.03 + 39 = 828.33$$

Answer: (b)

$$540). 19(1/7) + 26(2/3) - 9(1/3) + 5(1/7) = ?$$

$$\text{Or, } ? = (19+26+5-9) + [(1/7) + (2/3) - (1/3) +$$

$$(1/7)]$$

$$= 41 + (3+14-7+3)/21 = 41(13/21)$$

Answer: (e)

$$541). 121.65 + 432.85 - 115.35 - 401.63 = ?$$

$$a) 39.63$$

$$b) 43.67$$

$$c) 32.18$$

$$d) 37.52$$

$$e) \text{None of these}$$

$$542). 99 \times 41 + 46 \times 72 - 49 \times 69 = ?$$

$$a) 3210$$

$$b) 3381$$

$$c) 3990$$

$$d) 4059$$

$$e) 4168$$

$$543). (4/9) \times (17/8) \times (5/72) \times ? = 68 \times 8 \times 15$$

$$a) 153286$$

$$b) 178691$$

$$c) 216140$$

$$d) 173852$$

$$e) 124416$$

$$544). 16.5\% \text{ of } 1700 - 13.8\% \text{ of } 1750 = ?$$

$$a) 39$$

$$b) 33$$

$$c) 29$$

$$d) 43$$

$$e) 49$$

$$545). 572 \times 146 - 148 \times 2 = ?$$

$$a) 52180$$

$$b) 73215$$

$$c) 83216$$

$$d) 89612$$

$$e) 77633$$

$$546). (9884 \div 35.3) \times 1.5 + 493.19 = ?$$

$$a) 913.19$$

$$b) 912.43$$



- c) 916.83
- d) 919.41
- e) 920.51

547). $49.937 + 23.124 - 32.768 - 38.439 = ?$

- a) 1.874
- b) 1.934
- c) 1.854
- d) 1.826
- e) 1.834

548). $396.132 - 498.695 + 493.12 - 229.1 = ?$

- a) 191.457
- b) 261.457
- c) 190.457
- d) 160.457
- e) 161.457

549). $(121 \div 1.1) + (169 \div 0.13) - (5.76 \div 2.4) = ?$

- a) 1319.6
- b) 1407.6
- c) 1420.4
- d) 1507.8
- e) 1390.1

550). $4/9$ of $3/5$ of $4500 - 2/3$ of $1/7$ of $2/9$ of $1890 = ?$

- a) 1160
- b) 11980
- c) 1240
- d) 1460
- e) 1280

Solutions:

541). $? = 121.65 + 432.85 - 115.35 - 401.63$
 $= 554.5 - 516.98 = 37.52$

Answer: d)

542). $? = 99 \times 41 + 46 \times 72 - 49 \times 69$
 $= 4059 + 3312 - 3381 = 3990$

Answer: c)

543). $(4/9) \times (17/8) \times (5/72) \times ? = 68 \times 8 \times 15$
 Or, $? = (68 \times 8 \times 15 \times 9 \times 8 \times 72) / (4 \times 17 \times 5)$
 Or, $? = 124416$

Answer: e)

544). $? = 16.5\% \text{ of } 1700 - 13.8\% \text{ of } 1750$
 $= (16.5/100) \times 1700 - (13.8/100) \times 1750$
 $= 280.5 - 241.5 = 39$

Answer: a)

545). $? = 572 \times 146 - 148 \times 2$
 $= 83512 - 296 = 83216$

Answer: c)

546). $? = [(9884/353) \times 10] \times (15/10) + 493.19$
 $= (280) \times 15/10 + 493.19$
 $= 420 + 493.19 = 913.19$

Answer: a)

547). $? = 73.061 - 71.207 = 1.854$

Answer: c)

548). $? = 889.252 - 727.795 = 161.457$

Answer: e)

549). $? = 110 + 1300 - 2.4 = 1407.6$

Answer: b)

550). $? = 4/9 \times 3/5 \times 4500 - 2/3 \times 1/7 \times 2/9 \times 1890$
 $= 1200 - 40 = 1160$

Answer: a)



Directions (Q.551-560): Find out the approximate value which should replace the question mark (?) in the following questions. (You are not expected to find out the exact value.)

551). $95^{3.7} \div 95^{0.9989} = 95^?$

- a) 1.9
- b) 3
- c) 2.99
- d) 3.6
- e) 2.7

552). $\sqrt{10000} + (3.001)/(4.987)$ of $1891.992 = ?$

- a) 2500
- b) 1230
- c) 1640
- d) 1525
- e) 2130

553). $0.0004 \div 0.0001 \times 36.000009 = ?$

- a) 0.10
- b) 1.45
- c) 145
- d) 14.5
- e) 1450

554). 137% of 12345 = ?

- a) 17000
- b) 15000
- c) 1500
- d) 14300
- e) 900

555). $3739 + 164 \times 27 = ?$

- a) 105400
- b) 4000
- c) 8200

d) 690

e) 6300

556).

$196.1 \times 196.1 \times 196.1 \times 196.1 \times 4.01 \times 4.001 \times 4.999 \times 4.999$
 $= 196.1^4 \times 4 \times ?$

- a) 100
- b) 16
- c) 10
- d) 64
- e) 32

557). $(2/7) \times (1/8) + (3/7) \div (6/14) = ?$

- a) 2/56
- b) 3/56
- c) 1
- d) 2.5
- e) 50/60

558). $10.1^{2.01} + 2.9^{3.001} = ?$

- a) 130
- b) 160
- c) 115
- d) 117
- e) 147

559). $\sqrt{1999.9997} = 4.76 \times ?$

- a) 11
- b) 45
- c) 49
- d) 6
- e) 9

560). 23% of 4011 + $1/7$ of 5555 = ?

- a) 700
- b) 1900
- c) 9022
- d) 1700



e) 1450

Solutions:

$$551). 96^{3.7} \div 95^{0.9989} = 95?$$

$$\text{Or, } 95^? = 95^{3.7-0.9989}$$

$$\text{Or, } 95^? \approx 95^{2.7}$$

$$\text{Or, } ? = 2.70$$

Answer: e)

$$552). \sqrt{10000} + (3.001)/(4.987) \text{ of } 1891.992 = ?$$

$$\text{Or, } ? \approx 100 + 3/5 \text{ of } 1900 = 100 + 1140 \approx 1230$$

Answer: b)

$$553). ? = 0.0004 \div 0.0001 \times 36.000009$$

$$= 4 \times 36.000009 \approx 145$$

Answer: c)

$$554). ? = 137\% \text{ of } 12345$$

$$= (100 + 37)\% \text{ of } 12345$$

$$\approx 12345 + 4570 \approx 17000$$

Answer: a)

$$555). ? = 3739 + 164 \times 27$$

$$= 3739 + 4428 \approx 8200$$

Answer: c)

$$556).$$

$$196.1 \times 196.1 \times 196.1 \times 196.1 \times 4.01 \times 4.001 \times 4.999 \times 4.99$$

$$9 = (196.1)^4 \times 4 \times ?$$

$$\text{Or, } 4 \times ? = 4.01 \times 4.001 \times 4.999 \times 4.999$$

$$\text{Or, } ? \approx 4 \times 5 \times 5 = 100$$

Answer: a)

$$557). ? = (2/7) \times (1/8) + (3/7) \div (6/14)$$

$$= (2/7) \times (1/8) + (3/7) \times (14/6) =$$

$$(1/28) + 1 = 1(1/28) \approx 1$$

Answer: c)

$$558). ? = (10.1)^{2.01} + (2.9)^{3.001} \approx (10)^2 + (3)^3$$

$$= 100 + 27 \approx 130$$

Answer: a)

$$559). 4.76 \times ? = \sqrt{1999.9997}$$

$$4.76 \times ? = 44.72$$

$$\text{Or, } ? \approx 9$$

Answer: e)

$$560). ? = 23\% \text{ of } 4011 + 1/7 \text{ of } 5555$$

$$= 922.53 + 793.57 \approx 1700$$

Answer: d)

Directions(561-570): What should come in place of question mark (?) in the following questions?

$$561). 2125 \div 85 = \sqrt{?}$$

a) 125

b) 625

c) 725

d) 1225

e) 289

$$562). 7 \times (160 + 289) \div [7 \times (505 - 56)] = ?$$

a) 7

b) 17

c) 1

d) 21

e) None of these

$$563). 75\% \text{ of } 60\% \text{ of } 200 = ?$$

a) 190

b) 110

c) 80

d) 90



e) 50

564). ?% of $175/2 = 1400$

- a) 1500
- b) 1600
- c) 1700
- d) 2600
- e) 600

565). $\sqrt{\{[(0.09)^2 + (0.21)^2 + (0.013)^2] / [(0.009)^2 + (0.021)^2 + (0.0013)^2]\}} = ?$

- a) 110
- b) 10
- c) 100
- d) 1000
- e) 210

566). $(1443 \div 78) \times (19550 \div 425) = ?$

- a) 761
- b) 821
- c) 851
- d) 905
- e) 879

567). $(7\sqrt{11} + 3\sqrt{11}) \times (3\sqrt{11} + 9\sqrt{11}) - (36)^2 = ?$

- a) 29
- b) 125
- c) 18
- d) 24
- e) 658

568). $\{ (37/73) \times (511/444) \div (133/276) + (15/19) \} = ?$

- a) 2
- b) 5
- c) 1
- d) 8
- e) 15

569). $5/11$ of $275 \times 156 \div 13 + ? = 915 \div 15 + 585$

- a) -875
- b) 1146
- c) -146
- d) 1075
- e) -854

570). $\{ (7/11) (1 + (4/7)) (1 + (3/5)) (2 - (3/4)) (1 + (4/9)) (2 - ?) \} = (2 - (5/9))$

- a) $2/3$
- b) $3/2$
- c) $5/7$
- d) $7/5$
- e) 1

Solutions:

561). $\sqrt{?} = (2125/85) = 25$

$? = 25 \times 25 = 625$

Answer: b)

562). $? = (7 \times (160 + 289)) / (7 \times (505 - 56))$
 $= 449/449 = 1$

Answer: c)

563). $? = 75/100 \times 60/100 \times 200 = 90$

Answer: d)

564). $175/200 \times ? = 1400$

$? = (1400 \times 200) / 175 = 1600$

Answer: b)



$$5). ? = \sqrt{\frac{(0.09)^2 + (0.21)^2 + (0.013)^2}{(0.009)^2 + (0.021)^2 + (0.0013)^2}}$$

$$= \sqrt{\frac{\frac{81}{10000} + \frac{441}{10000} + \frac{169}{100000000}}{\frac{81}{1000000} + \frac{441}{1000000} + \frac{169}{10000000000}}}$$

$$= \sqrt{\frac{8100 + 44100 + 169}{8100 + 44100 + 169} \times \frac{100000000}{1000000}}$$

$$= \sqrt{100} = 10$$

Answer: b)

566).

$$? = (1443 \div 78) \times (19550 \div 425)$$

$$= 18.5 \times 46 = 851$$

Answer: c)

567).

$$? = (7\sqrt{11} + 3\sqrt{11}) \times (3\sqrt{11} + 9\sqrt{11}) - 36^2$$

$$= 10\sqrt{11} \times 12\sqrt{11} - 1296$$

$$= 11 \times 10 \times 12 - 1296$$

$$= 1320 - 1296$$

$$= 24$$

Answer: d)

568).

$$? = (37/73) \times (511/444) \div (133 \times 276) + (15/19)$$

$$= (37/73) \times 511/444 \times 276/133 + 15/19$$

$$= 23/19 + 15/19 = 38/19 = 2$$

Answer: a)

569).

$$5/11 \text{ of } 275 \times 156 \div 13 + ? = 915 \div 15 + 585 = 646$$

$$\text{Or, } 125 \times 12 + ? = 646$$

$$\text{Or, } 125 \times 12 + ? = 646$$

$$\text{Or, } ? = 646 - 1500 = -854$$

Answer: e)

$$570). 7/11 [1 + (4/7)] \times [1 + (3/5)] \times [2 - (3/4)] \times [1 + (4/9)] \times (2 - ?) = [2 - (5/9)]$$

$$\text{Or, } 7/11 \times 11/7 \times 8/5 \times 5/4 \times 13/9 \times (2 - ?) = 13/9$$

$$\text{Or, } 2(2 - ?) = 1$$

$$\text{Or, } 2 \times ? = 4 - 1 = 3$$

$$? = 3/2$$

Answer: b)

Directions (Q.571-580): What should come in place of question mark in the following questions?

$$571). (2864 \div 179)^{1/2} + (646 \div 19)^2 = ?^2 + 319$$

- a) 841
- b) 29
- c) -29
- d) 1060
- e) -841

$$572). \sqrt{[(1.8)^2 \times 5 + (1.8) \times (8)^3 - (13.05 \times 16)]} = (?)^3$$

- a) 81
- b) 27
- c) $\sqrt{18}$
- d) 3
- e) 9

$$573). 46.7\% \text{ of } 1680 + 23.4\% \text{ of } 675 = (?)^2 - 906.49$$

- a) 1849
- b) 1681
- c) 43
- d) 41
- e) -43

$$574). 1/3 \text{ of } 1875 + 2/5 \text{ of } 4360 - 7/8 \text{ of } 1584 = ?$$

- a) 980
- b) 982
- c) 985
- d) 983
- e) 882



575). $1/7$ of 1519 + 67.5% of 2040 = ? $\div$ 25

- a) 37850
- b) 39850
- c) 37050
- d) 36850
- e) 42850

576). $38 \frac{7}{8} + 49 \frac{5}{8} = ? - 39 \frac{11}{16}$

- a) $126 \frac{3}{16}$
- b) $125 \frac{3}{16}$
- c) $124 \frac{3}{16}$
- d) $128 \frac{3}{16}$
- e) $127 \frac{3}{16}$

577). $43 \times 48 \times 5 \div ? = 120$

- a) 89
- b) 86
- c) 88
- d) 84
- e) 82

578). $22480 \div 281 \times 34 + ? = 2933$

- a) 225
- b) 209
- c) 211
- d) 213
- e) 207

579). $(16.6 \times 9.8 + 122.32) \div 5 = (?)^2 + ? + 1$

- a) 7
- b) 8
- c) 9
- d) 10
- e) 6

580). 49% of 700 + ?% of 800 = 495

- a) 14

b) 17

c) 19

d) 13

e) 18

Solutions:

571). $(?)^2 + 319 = (2864 \div 179)^{1/2} + (646 \div 19)^2$

$$= (16)^{1/2} + (34)^2 = 4 + 1156 = 1160$$

$$\text{Or, } (?)^2 = 1160 - 319 = 841 = 29 \times 29$$

$$\therefore ? = \sqrt{(29 \times 29)} = 29$$

Answer: b)

572). $(?)^3 = \sqrt{(1.8 \times 1.8 \times 5 + 1.8 \times 512 - 208.8)}$

$$= \sqrt{(16.2 + 921.6 - 208.8)}$$

$$= \sqrt{(937.8 - 208.8)}$$

$$= \sqrt{729} = 27$$

$$? = \sqrt[3]{(3 \times 3 \times 3)} = 3$$

Answer: d)

573). $(?)^2 - 906.49 = (46.7 \times 1680) / 100 +$

$$(23.4 \times 675) / 100$$

$$= 784.56 + 157.95 = 942.51$$

$$\text{Or, } (?)^2 = 942.51 + 906.49 = 1849$$

$$? = \sqrt{(43 \times 43)} = 43$$

Answer: c)

574). $? = 1/3$ of 1875 + $2/5$ of 4360 - $7/8$ of 1584

$$= 1/3 \times 1875 + 2/5 \times 4360 - 7/8 \times 1584$$

$$= 625 + 1744 - 7 \times 198$$

$$= 2369 - 1386 = 983$$

Answer: d)

575). $1/7$ of 1519 + 67.5% of 2040 = ? $\div$ 25

$$\text{Or, } 1/7 \times 1519 + [(67.5 \times 2040) / 100] = ? \div 25$$

$$\text{Or, } ? / 25 = 217 + 1377 = 1594$$

$$\therefore ? = 1594 \times 25 = 39850$$

Answer: b)



576). $38\frac{7}{8} + 49\frac{5}{8} = ? - 39\frac{11}{16}$

Or, $? = 38\frac{7}{8} + 49\frac{5}{8} + 39\frac{11}{16}$

$= (38+49+39) + [(7/8) + (5/8) + (11/16)]$

$= 126 + (14+10+11)/16$

$= 126 + 35/16 = (126 \times 16 + 35)/16 = 2039/16 = 128\frac{3}{16}$

Answer: d)

577). $43 \times 48 \div 5 = ? - 120$

Or, $10320/? = 120$

$? = 10320/120$

$= 86$

Answer: b;

578). $22480 \div 281 \times 34 + ? = 2933$

Or, $80 \times 34 + ? = 2933$

Or, $2720 + ? = 2933$

Or, $? = 2933 - 2720 = 213$

Answer: d)

579). $(16.6 \times 9.80 + 122.32) \div 5 = ?^2 + ? + 1$

Or, $285/5 = ?^2 + ? + 1$

Or, $?^2 + ? = 57 - 1 = 56$

$= 49 + 7 = (7)^2 + 7$

$? = 7$

Answer: a)

580). $49\% \text{ of } 700 + ?\% \text{ of } 800 = 495$

Or, $700 \times 49/100 + 800 \times ?/100 = 495$

Or, $343 + 8 \times ? = 495$

Or, $8 \times ? = 495 - 343$

$\therefore ? = 152/8 = 19$

Answer: c)

Directions (Q. 581-590): What approximate value should come in place of question mark (?) in the following questions? (Note: You are not expected to calculate the exact value.)

581). $16.59\% \text{ of } 1349.91 = ?$

a) 180

b) 330

c) 230

d) 51

e) 260

582). $\sqrt[3]{250047.99} \times 240\% \text{ of } 629.49 = ?$

a) 83249

b) 114898

c) 78632

d) 104863

e) 95256

583). $\{(8.99)^2 \times 18.98\} \div \sqrt{362} = ?$

a) 81

b) 63

c) 79

d) 103

e) None of these

584). $119.01 + 14.997 + 25.09 \times 12.91 = ?$

a) 459

b) 209

c) 389

d) 375

e) 400

585). $461.9\% \text{ of } 1399.99 + 569.99\% \text{ of } 1469.8 = ?$

a) 14925

b) 14321

c) 14635

d) 14847

e) 14559

586). $(179.99)^2 - (85.001)^2 = ?$

a) 25375

b) 23165

c) 25175

d) 25370

e) 25335

587). $49666.599 \times 34.119 - 29.009 = ?$

a) 1766365



b) 1688649

c) 1733435

d) 1899465

e) 1666635

588). $25092.99 + 2399.001 - 161.001 = ?$

a) 27971

b) 23691

c) 24981

d) 25691

e) 27331

589). $625.001 \times 25.995 + 2695.33 - 2499.001 = ?$

a) 16445

b) 12350

c) 13375

d) 14625

e) 17665

590). $26496.99 + 28432.229 + 496.99 - 4720 = ?$

a) 53706

b) 51706

c) 53706

d) 50706

e) 53476

Solutions:

581). $? = 16.59\% \text{ of } 1349.91$

$$\approx (17 \times 1350) / 100 = 229.5 \approx 230$$

Answer: c)

582). $? = \frac{250047.99}{3} \times 240\% \text{ of } 629.49$

$$\approx 63 \times (240 / 100) \times 630 = 95256$$

Answer: e)

583). $? = \{(8.99)^2 \times 18.98\} \div \sqrt{362}$

$$\approx \{81 \times 19\} \div 19$$

$$= (81 \times 19) \div 19 = 81$$

Answer: a)

584). $? = 119.01 + 14.997 + 25.09 \times 12.91$

$$= 119 + 15 + 25 \times 13$$

$$= 134 + 325 = 459$$

Answer: a)

585). $? = 461.9\% \text{ of } 1399.99 + 569.99\% \text{ of } 1469.8$

$$\approx (462 / 100) \times 1400 + (570 / 100) \times 1470$$

$$= 6468 + 8379 = 14847$$

Answer: d)

586). $? \approx (180)^2 - (85)^2$

Let $180 = a$, $85 = b$

$$\therefore a^2 - b^2 = (a + b)(a - b)$$

$$= (180 + 85)(180 - 85) = (265) \times (95) = 25175$$

Answer: c)

587). $? \approx 49667 \times 34 - 29$

$$= 1688678 - 29 = 1688649$$

Answer: b)

588). $? = 25093 + 2399 - 161$

$$= 27492 - 161 = 27331$$

Answer: e)

589). $? \approx 625 \times 26 + 2695 - 2500$

$$= 16445$$

Answer: a)

590). $? \approx 26497 + 28432 + 497 - 4720$

$$= 55426 - 4720 = 50706$$

Answer: d)

Directions (591-600): What value should come in place of question mark (?) in the following questions?

591). $(9884 \div 35.3) \times 1.5 + 493.19 = ?$

a) 913.19

b) 912.43

c) 916.83

d) 919.41

e) 920.51

592). $49.937 + 23.124 - 32.768 - 38.439 = ?$

a) 1.874

b) 1.934

c) 1.854

d) 1.826

e) 1.834

593). $396.132 - 498.695 + 493.12 - 229.1 = ?$



- a) 191.457
- b) 261.457
- c) 190.457
- d) 160.457
- e) 161.457

594). $(121 \div 1.1) + (169 \div 0.13) - (5.76 \div 2.4) = ?$

- a) 1319.6
- b) 1407.6
- c) 1420.4
- d) 1507.8
- e) 1390.1

595). $4/9$ of $3/5$ of 4500 - $2/3$ of $1/7$ of $2/9$ of 1890 = ?

- a) 1160
- b) 11980
- c) 1240
- d) 1460
- e) 1280

596). $704 \times 710 + 112 \times 108 = ?$

- a) 499840
- b) 511936
- c) 519136
- d) 511396
- e) None of these

597). $21.2 \times 21.2 \times 21.2 = ?$

- a) 9582.128
- b) 9528.128
- c) 5928.128
- d) 9528.218
- e) None of these

598). $25600 \div 16 \div 16 = ?$

- a) 256
- b) 100
- c) 56
- d) 4056
- e) None of these

599). $26/24$ of 408 + $25/46\%$ of 41400 = ?

- a) 547
- b) 447

c) 467

d) 647

e) 667

600). $9600 \times (5/16) \times (6/24) \times (27/6) = ?$

- a) 3735
- b) 3575
- c) 3375
- d) 5373
- e) None of these

Solutions for the above aptitude Questions:

591). $? = [(9884/353) \times 10] \times 15/10 + 493.19$
 $= (280) \times 15/10 + 493.19 = 420 + 493.19$
 $= 913.19$

Answer: a)

592). $? = 73.061 - 71.207$
 $= 1.854$

Answer: c)

593). $? = 889.252 - 727.795$
 $= 161.457$

Answer: e)

594). $? = 110 + 1300 - 2.4$
 $= 1407.6$

Answer: b)

595). $? = 4/9 \times 3/5 \times 4500 - 2/3 \times 1/7 \times 2/9 \times 1890$
 $= 1200 - 40 = 1160$

Answer: a)

596). $? = (704)^2 + 704 \times 6 + (108)^2 + 108 \times 4$
 $= 495616 + 4224 + 11664 + 432 = 511936$

Answer: b)

597). $? = (21.2)^3 = 9528.128$

Answer: b)

598). $? = 25600 \times 1/16 \times 1/16$
 $= 25600 \times 1/256 = 100$

Answer: b)

599). $? = 26/24 \times 408 + 25/4600 \times 41400$
 $= 442 + 225 = 667$



Answer: e)

$$600). ? = 9600 \times \frac{5}{16} \times \frac{6}{24} \times \frac{27}{6} = 3375.$$

Answer: c)

Directions (Q.601-610): What should come in place of question mark (?) in the following questions?

601). 95% of 75% of 4860 - 45% of 55% of 5550 = ?

- a) 1890.135
- b) 2089.125
- c) 1889.375
- d) 1390.375
- e) 2910.235

602). $496.932 + 476.16 - 439.18 - 132.693 = ?$

- a) 410.219
- b) 400.219
- c) 419.219
- d) 401.219
- e) 432.219

603). $(21\% \text{ of } 441) \div 2.1 + (13\% \text{ of } 169) \div 13 = ?$

- a) 45.79
- b) 43.79
- c) 41.79
- d) 44.79
- e) 39.79

604). 96% of ? = 438624

- a) 433700
- b) 456900
- c) 436900
- d) 473900
- e) 482300

605). $\sqrt{21.16} + \sqrt{73.96} - \sqrt{39.69} + \sqrt{1764} = ?$

- a) 43.9
- b) 41.3
- c) 42.9
- d) 46.3
- e) 48.9

606). $\sqrt[3]{12.167} \times \sqrt[3]{274.625} \div \sqrt[3]{2.197} = ?$

- a) 17.5

b) 15.5

c) 11.5

d) 14.5

e) 13.5

607). $497 \div 7 \times 91 \div 13 + \sqrt{38.44} + \sqrt[3]{9.261} = ?$

- a) 500.3
- b) 505.3
- c) 675.3
- d) 513.3
- e) 519.3

608). 92% of 4890 - 86% of 5200 + 42% of 4150 = ?

- a) 1986.6
- b) 1352.2
- c) 1769.8
- d) 1379.8
- e) 1982.8

609). $(33.3 \times 2.22 \times 0.33) \div (11.1 \times 1.11 \times 0.11) = ?$

- a) 23
- b) 21
- c) 27
- d) 18
- e) 25

610). 6.9% of 6900 - 5.4 % of 540 = ?

- a) 432.94
- b) 456.94
- c) 476.94
- d) 464.94
- e) 446.94

Solutions for the above aptitude Questions:

601). $? = (95/100) \times (75/100) \times 4860 - (45/100) \times (55/100) \times 5550 = 3462.75 - 3.625 = 2089.125$

Answer: b)

602). $? = 496.932 + 476.16 - 439.18 - 132.693 = 973.092 - 571.873 = 401.219$

Answer: d)



603). $? = ((21 \times 441) / (2.1 \times 100)) + (13 \times 169) /$

$(13 \times 100) = 44.1 + 1.69 = 45.79$

Answer: a)

604). $? = (438624 \times 100) / 96 = 4569 \times 100 = 456900$

Answer: b)

605). $? = 4.6 + 8.6 - 6.3 + 42 = 55.2 - 6.3 = 48.9$

Answer: e)

606). $? = 2.3 \times 6.5 \div 1.3 = 2.3 \times 5 = 11.5$

Answer: c)

607). $? = (497/7) \times (91/13) + 6.2 + 2.1 = 71 \times 7 + 8.3 =$

$497 + 8.3 = 505.3$

Answer: b)

608). $? = [(92 \times 4890) / 100] - [(86 \times 5200) / 100] + [$

$(42 \times 4150) / 100] = 4498.8 - 4472 + 1743 = 6241.8 -$

$4472 = 1769.8$

Answer: c)

609). d; $? = (33.3 \times 2.22 \times 0.33) \div (11.1 \times 1.11 \times 0.11) =$

$3 \times 2 \times 3 = 18$

Answer: d)

610). $? = [(6.9 \times 6900) / 100] - [(5.4 \times 540) / 100] =$

$476.1 - 29.16 = 446.94$

Answer: e)

Directions (Q.611-615): What approximate value should come in place of question mark (?) in each of the following questions? (Note: You are not expected to calculate the exact value).

611). $8787 \div 342 \times \sqrt{50} = ?$

a) 185

b) 180

c) 210

d) 215

e) 220

612). $\sqrt[3]{15628 \times (201 \div 8)} = (?)^2$

a) 28

b) 25

c) 31

d) 22

e) 24

613). $7/9$ of $4011.33 + 7/11$ of $3411.22 = ?$

a) 5210

b) 5280

c) 5210

d) 5290

e) 5260

614). 23% of $5783 + 57\%$ of $8561 = ?$

a) 6460

b) 6210

c) 6230

d) 6420

e) 6630

615). $345.01 \times 224.99 \div (11 \times 5) = ?$

a) 1280

b) 1315

c) 1410

d) 1420

e) 1470

Directions (Q. 616-620): What approximate value should come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value).



616). 5.5% of 225 + 7.5% of 625 - 18.6% of 182 = ?

- a) 16
- b) 14
- c) 19
- d) 25
- e) 18

617). $\sqrt{2.25} + \sqrt{6.76} + \sqrt{9.61} + \sqrt{10.89} - \sqrt{23.04} = ?$

- a) 4
- b) 8
- c) 7
- d) 3
- e) 5

618). $2.26 + 3.86 + 2.96 + 5.89 + ? = 4.4 \div 1.1 \times 5.89$

- a) -7
- b) 8
- c) 7
- d) 9
- e) 10

619). $(5.96)^2 + (7.89)^2 + (2.9)^2 + (3.1)^2 = (2.42)^2 + (2.68)^2 + ?$

- a) 105
- b) 108
- c) 107
- d) 106
- e) 110

620). $(9.1 \times 5.7 \times 6.72 \times 9.5) - (1.9 \times 2.1 \times 3 \times 1.7) = ?$

- a) 3372
- b) 3378
- c) 3568
- d) 3328
- e) 3358

Solution for the above Aptitude Questions:

611). $? = 8787 \div 342 \times \sqrt{50} = 25.7 \times 7 = 179.9 \approx 180$

Answer: b)

612). $(?)^2 = \sqrt[3]{15628 \times (201 \div 8)}$

$(\because \sqrt[3]{15628} \approx \sqrt[3]{15625} \approx 25) \approx 25 \times 25.125 \approx 25 \times 25$

$\therefore ? = \sqrt{(25 \times 25)} = 25$

Answer: b)

613). $? = 7/9$ of $4011.33 + 7/11$ of 3411.22

$\approx 7/9 \times 4011 + 7/11 \times 3411$

$\approx 3119.66 + 2170.63$

$\approx 3120 + 2170 = 5290$

Answer: d)

614). $? = 23\%$ of $5783 + 57\%$ of 8561

$= [(23 \times 5783) \div 100] + [(57 \times 8561) \div 100]$

$= 1330.09 + 4879.77 \approx 1330 + 4880 = 6210$

Answer: b)

615). $? = 345.01 \times 224.99 \div (11 \times 5) \approx 345 \times (225 \div 55)$

$= 77625 \div 55 = 1411 \approx 1410$

Answer: c)

616). $? = 5.5\%$ of $225 + 7.5\%$ of $625 - 18.6\%$ of 182

$= 12.375 + 46.875 - 33.852$

$\approx 12 + 47 - 34 = 25$

Answer: d)

617). $? = \sqrt{2.25} + \sqrt{6.76} + \sqrt{9.61} + \sqrt{10.89} - \sqrt{23.04}$

$= 1.5 + 2.4 + 3.1 + 3.3 - 4.8 = 10.3 - 4.8$

$= 10.3 - 4.8 \approx 10 - 5 = 5$

Answer: e)

618). $? = 4.4 \div 1.1 \times 5.89 - (2.26 + 3.86 + 2.96 + 5.89) =$

$(4 \times 6) - (2 + 4 + 3 + 6) \approx 24 - 15 = 9$

Answer: d)

619). $(2.42)^2 + (2.68)^2 + ? = (5.96)^2 + (7.89)^2 + (2.9)^2 +$

$(3.1)^2 \approx (6)^2 + (8)^2 + (3)^2 + (3)^2$

$\approx 36 + 64 + 9 + 9 = 118$

$\therefore ? = 118 - \{(2.42)^2 + (2.68)^2\}$

$= 118 - (5.86 + 7.18) \approx 118 - \{6 + 7\} = 118 - 13 = 105$

Answer: a)

620). $? = (9.1 \times 5.7 \times 6.72 \times 9.5) - (1.9 \times 2.1 \times 3 \times 1.7) \approx$

$9 \times 6 \times 7 \times 9.5 - (2 \times 2 \times 2 \times 3)$



$\approx 3591 - 24 = 3567 \approx 3568$

Answer: c)

621). $19.9 \times 16.1 \times 17.2 = ?$

- a) 5869.01
- b) 3021.861
- c) 5510.708
- d) 4862.961
- e) None of these

622). $14 \left(\frac{1}{11}\right) + 16 \left(\frac{3}{11}\right) + 14 \left(\frac{4}{121}\right) + 15 \left(\frac{3}{11}\right) = ?$

- a) 59 (54/121)
- b) 39 (23/121)
- c) 61 (82/99)
- d) 107 (59/121)
- e) 59 (81/121)

623). $16.5\% \text{ of } 300 + 70.5\% \text{ of } 1400 - 10\% \text{ of } 480 = ?$

- a) 1280.75
- b) 1084.5
- c) 986.25
- d) 1175.5
- e) None of these

624). $(4 \times 4 \times 4 \times 4)^2 - (2^3)^2 \div 16 = ?$

- a) 64839
- b) 55423
- c) 58028
- d) 65532
- e) 68672

625). $19\% \text{ of } 360 + ? = 45\% \text{ of } 230$

- a) 29.68
- b) 36.5
- c) 33.8
- d) 38.7

e) 35.1

626). $49 \div 0.7 - 4.9 = ?$

- a) 63.2
- b) 65.1
- c) 57.8
- d) 69.3
- e) None of these

627). $(\sqrt{576} + \sqrt{1225} + \sqrt{289}) \times \sqrt{5625} = ?$

- a) 5186
- b) 6130
- c) 5400
- d) 5700
- e) 5620

628). $9898 + 1773 - 1882 \times 3 \div 2 = ?$

- a) 7320
- b) 8989
- c) 8848
- d) 9100
- e) 7963

629). $\sqrt[3]{729} \times \sqrt[3]{15625} \times \sqrt{3969} \div 21 = ?$

- a) 721
- b) 789
- c) 525
- d) 595
- e) 675

630). $\sqrt{7744} \times \sqrt{?} = 15488$

- a) 29843
- b) 30976
- c) 42102
- d) 39086
- e) 50807



Detailed Solutions for the above Aptitude Questions:

621). $? = 19.9 \times 16.1 \times 17.2 = 5510.708$

Answer: c)

622). $? = 14 \frac{1}{11} + 16(\frac{3}{11}) + 14(\frac{4}{121}) + 15(\frac{3}{11})$
 $= (14+16+14+15) (\frac{1}{11} + \frac{3}{11} + \frac{4}{121} + \frac{3}{11})$
 $= 59 [(\frac{11+33+4+33}{121})] = 59(\frac{81}{121})$
 $= 59(\frac{81}{121})$

Answer: e)

623). $? = 16.5\% \text{ of } 300 + 70.5\% \text{ of } 1400 - 10\% \text{ of } 480$
 $= [(\frac{16.5}{100}) \times 300] + [(\frac{70.5}{100}) \times 1400] - [(\frac{10}{100}) \times 480]$
 $= 149.5 + 987 + 48 = 1084.5$

Answer: b)

624). $? = (4 \times 4 \times 4 \times 4)^2 - (2^3)^2 \div 16$
 $= 65536 - 64 \div 16 = 65536 - 4 = 65532$

Answer: d)

625). $19\% \text{ of } 360 + ? = 45\% \text{ of } 230$
Or, $\frac{19}{100} \times 360 + ? = \frac{45}{100} \times 230$
Or, $68.4 + ? = 103.5$
Or, $? = 35.1$

Answer: e)

626). $? = 49 \div 0.7 - 4.9 = 49 \div (\frac{7}{10}) - 4.9$
 $= 49 \times \frac{10}{7} - 4.9 = 70 - 4.9 = 65.1$

Answer: b)

627). $? = (\sqrt{576} + \sqrt{1225} + \sqrt{289}) \times \sqrt{5625}$
 $= (24 + 35 + 17) \times 75 = 76 \times 75 = 5700$

Answer: d)

628). $? = 9898 + 1773 - 1882 \times 3 \div 2$
 $= 9898 + 1773 - 941 \times 3$
 $= 11671 - 2823 = 8848$

Answer: c)

629). $? = {}_3\sqrt{729} \times {}_3\sqrt{15625} \times \sqrt{3969} \div 21$
 $= 9 \times 25 \times 63 \div 21 = 675$

Answer: e)

630). $? = \sqrt{7744} \times \sqrt{?} = 15488$
Or, $88 \times \sqrt{?} = 15488$
Or, $\sqrt{?} = 15488/88 = 176$
Or, $? = 30976$

Answer: b)

Directions(631-635):What will come in place of question mark(?) in the following questions?

631). ${}^3\sqrt{(2744)} + {}^3\sqrt{(4096)} + \sqrt{?} = 38.5$

- a) 62.25
- b) 72.75
- c) 72.25
- d) 82.25
- e) 52.25

632). $63.75\% \text{ of } 5600 + 42\% \text{ of } 3250 = ?$

- a) 4935
- b) 4975
- c) 4835
- d) 4675
- e) 4735

633). $1311 \div 1.9 + 8525 \div 625 = ?$

- a) 603.64
- b) 703.64
- c) 584.46
- d) 684.64
- e) 608.68

634). $(39)^2 - (24)^2 = ? \% \text{ of } 1800$

- a) 42.25%
- b) 52.5%



- c) 62.5%
- d) 58.5%
- e) 48.25%

635). $7 \times (3/7)\%$ of 4921 + $8 \times (1/3)\%$ of 2463 = ? + 191.81

- a) 374
- b) 384
- c) 349
- d) 350
- e) 379

Directions(636-340): What approximate value will come in place of question mark(?) in the following questions?(You are not expected to calculate the exact value)

636). 131.01% of 458.47 + 341.005% of 129.95 = 259.99% of ?

- a) 412
- b) 403
- c) 509
- d) 392
- e) 423

637). $3\sqrt{5830} + \sqrt{10608} = 4\sqrt{(?^2)}$

- a) 14640
- b) 15740
- c) 13998
- d) 13540
- e) None of these

638). $\sqrt{(144.98\% \text{ of } 2163.05)} = 23 \times (1/3)\%$ of ?

- a) 260
- b) 240
- c) 250
- d) 252
- e) 230

639). $(26922/9790) \div (7410/1640) \times (4556/392.05) = \sqrt{?}$

- a) 49
- b) 64
- c) 81
- d) 36
- e) None of these

640). $46 \times (7/9)\%$ of 440.987 - 45.88% of 370.198 = ?

- a) 12.5
- b) 15.5
- c) 18.5
- d) 19.25
- e) 36

Check Below for Detailed Solutions of the above

Aptitude Questions:

631). $\sqrt{?} = 38.5 - (14 + 16) = 8.5$

$$\therefore ? = 8.5 \times 8.5 = 72.25$$

Answer:c)

632). $? = \{ (63.75 \times 5600) / 100 \} + \{ (42 \times 32500) / 100 \}$
 $= 3570 + 1365 = 4935$

Answer:a)

633). $? = 1311 \div 1.9 + 8525 \div 625$
 $= 690 + 13.64 = 703.64$

Answer:b)

634). $(? \times 1800) / 100 = (39)^2 - (24)^2$
 $= (39 + 24)(39 - 24) = 63 \times 15$
 $\therefore ? = (63 \times 15) / 18 = 52.5\%$

Answer:b)

635). $7 \times (3/7)\%$ of 4921 + $8 \times (1/3)\%$ of 2463 = ? - 191.81
 Or



$$(52/7) \times (4921/100) + (25/300) \times 2483 = ? + 191.81$$

$$\therefore ? = 365.56 + 205.25 - 191.81 = 379$$

Answer: e)

636). 259.99% of ? = 131.01% of

$$458.47 + 341.005\% \text{ of } 129.95$$

$$\text{Or, } (260 \times ? / 100) \approx (131 \times 458 / 100) + (341 \times 130 / 100)$$

$$\approx 600 + 447 = 1047$$

$$\therefore ? = (1047 \times 100 / 260) = 402.69 \approx 403$$

Answer: b)

637). $4\sqrt{(?)}^2 = 3\sqrt{5830} + \sqrt{10608}$

$$\approx 18 + 103 = 121$$

$$\text{Or, } (?)^{2/4} = 121$$

$$\text{Or, } (?)^{1/2} = 121$$

$$\therefore ? = 121 \times 121 = 14640$$

Answer: a)

638). $23(1/3)\% \text{ of } ? = \sqrt{(144.98\% \text{ of } 2163.05)}$

$$\text{or, } (70/300) \times ? = \sqrt{[(145 \times 2163) / 100]} \approx \sqrt{3136} = 56$$

$$\text{or, } ? = (56 \times 300) / 70 = 240$$

Answer: b)

639). $\sqrt{?} = 26922/9790 + 7410/1640 \times 4656/392.05$

$$\approx 2.75 \div 4.5 \times 12$$

$$\approx 2.75 \div 4.5 \times 12$$

$$\approx (2.75/4.5) \times 11 \approx 7.33 \approx 7$$

$$\therefore ? = 49$$

Answer: a)

640). $? = 46(7/9)\% \text{ of } 440.987 - 45.88\% \text{ of } 370$

$$= (421/900) \times 441 - (46 \times 370) / 100$$

$$= 206.29 - 170.2 = 36.09 = 36$$

Answer: e)

Directions (Q. 641-645): What will come in place of question mark (?) in the following questions?

641). $(42)^2 - (38)^2 - (17)^2 = ? \div 0.1$

a) 4.1

b) 3.1

c) 5.1

d) 6.1

e) None of these

642). $702 \div 27 + 108 \times 0.75 = ?$

a) 79

b) 89

c) 98

d) 107

e) 99

643). $348 \times 9 \times ? = 37584$

a) 11

b) 12

c) 14

d) 16

e) None of these

644). $1234.131 - 93.12 - 431.1 - ? = 8.432$

a) 411.072

b) 369.497

c) 701.479

d) 356.479

e) 405.521

645). $(54\% \text{ of } 3845) - (36\% \text{ of } 2755) = ?$

a) 1340.65

b) 1284.5

c) 1084.5

d) 1410.75

e) 1348.5

Directions (Q. 646-650): What approximate value should come in place of question mark (?) in the following equations.



646). $816.21 \div 34.97 \times 24.98 = ?$

- a) 650
- b) 620
- c) 480
- d) 580
- e) 550

647). $\sqrt{(1680)} + \sqrt[3]{(4095)} = ?$

- a) 78
- b) 69
- c) 50
- d) 59
- e) 57

648). $22 \times (1/3)\%$ of 435.3 - $(11/7)\%$ of 1734.67 = ?

- a) 78
- b) 69
- c) 50
- d) 59
- e) 62

649). $(803.71)^2 = ?$

- a) 566000
- b) 767600
- c) 646400
- d) 787800
- e) 506000

650). $(4721+3271+5324) \div (491+769+132) = ?$

- a) 40
- b) 20
- c) 25
- d) 10
- e) 15

Check Below for Detailed Solutions of the above

Aptitude Questions:

641). $? \div (1/10) = 1764 - 1444 - 289$

Or, $? \times 10 = 31$

$\therefore ? = (31/10) = 3.1$

Answer is: b

642). $? = (702 / 27) + 108 \times \frac{3}{4} = 26 + 81 = 107$

Answer is: d

643). $? = 37584 / (9 \times 348) = 12$

Answer is: b

644). $? = 1234.131 - 93.12 - 431.1$

$= (1234.131 - 532.652) = 701.479$

Answer is: c

645). $? = (54 \times 3845) / 100 - (36 \times 2755) / 100$

$= (2076.3 - 991.8) = 1084.5$

Answer is: c

646). $? \cdot (816/35) \times 25 \cdot 23 \times 25 = 575 \cdot 580$

Answer is: d

647). $? = \sqrt{1680} + \sqrt[3]{4095} = 41 + 16 = 57$

Answer is: e

648). $? = (67/3) \times (435/100) - (11/7) \times (1735/100) - (97 -$

$27) = 70 - 69$

Answer is: b

649). $? \cdot (804)^2 = 646416 - 646400$

Answer is: c

650). $? = (4721+3271+5324) \div (491+769+132) = 13316 \div$
 $1392 = 13400 \div 1400 = 9.5 = 10$



Answer is: d

Directions (Q. 651-655): What will come in place of question mark (?) in the following questions?

651). $\frac{3}{8}$ of $\frac{4}{9}$ of 1575 + $(\sqrt{?}) - 32\%$ of 786 = 66.98

- a) $\sqrt{56}$
- b) 56
- c) $(56)^2$
- d) 36
- e) $(36)^2$

652). $\sqrt[3]{97336} + \sqrt[2]{6889} \div 2^? - \frac{3}{4}$ of $65 + 5^2 = 43$

- a) 4
- b) 16
- c) 8
- d) 2
- e) 2.5

653). $(2^3)^3 \times (2^2)^2 \times (8^2)^{3/2} / (2^2)^6 = (4)^?$

- a) 8
- b) 10
- c) 2.5
- d) 6
- e) 5

654). $(4 \times 18)^{3.35} \times (8)^{5.2} \times (64)^{7.3} \times (27 \times 3)^{9.9} = (72)^?$

- a) 23.15
- b) 24.15
- c) 3.35
- d) 7.3
- e) 20.75

655). $4 \frac{51}{13} \times 8 \frac{3}{37} \times 1 \frac{7}{12} \times [(16)^2 + 3] = 23 \times ?$

- a) 1141.584
- b) 1151.584
- c) 11415.84
- d) 11515.84
- e) None of these

651). C)

$$\frac{3}{8} \times \frac{4}{9} \times 1575 + (\sqrt{?}) - 32\% \text{ of } 786 = 66.98$$

$$\frac{1}{2} \times 525 + (\sqrt{?}) - \left(\frac{32}{100}\right) \times 786 = 66.98$$

$$262.5 (100) + (\sqrt{?}) (100) - 25152 = 66.98(100)$$

$$26250 - 25152 + (\sqrt{?}) (100) = 6698$$

$$(\sqrt{?}) (100) = 5600$$

$$? = (56)^2$$

652). D)

$$\sqrt[3]{97336} + \sqrt[2]{6889} \div 2^? - \frac{3}{4} \text{ of } 65 + 5^2 = 43$$

$$46 + 83/2^? - 48.75 + 25 = 43$$

$$83/20.75 = 2^?$$

$$4 = 2^?$$

$$? = 2$$

653). E)

$$(2^3)^3 \times (2^2)^2 \times (8^2)^{3/2} / (2^2)^6 = (4)^?$$

$$(4)^? = 2^9 \times 2^4 \times 8^3 / 2^{12}$$

$$(4)^? = 2^{13-12} \times 8^3$$

$$(4)^? = (4)^5$$

$$? = 5$$

654). A)

$$(72)^? = (4 \times 18)^{3.35} \times (8)^{5.2} \times (64)^{7.3} \times (27 \times 3)^{9.9}$$

$$(72)^? = (4 \times 2 \times 9)^{3.35} \times (8)^{5.2} \times (8 \times 8)^{7.3} \times (9 \times 9)^{9.9}$$

$$(72)^? = (8)^{3.35+5.2+7.3+7.3} \times (9)^{3.35+9.9+9.9}$$

$$(72)^? = (72)^{23.15}$$

655). A)

$$23 \times = 103/13 \times 299/37 \times 19/12 \times 259$$

$$x=1141.584$$

Directions (Q. 656-660): What approximate value should come in place of question mark (?) in the questions given below:

656). $\sqrt{3598.9} \times [(10008.99)^2 / 10009.001] \times 0.4987 = ?$

- a) 400168



- b) 200368
- c) 300270
- d) 300570
- e) 310670

657). $39.05 \times 14.95 - 27.99 \times 10.12 = (36 + ?) \times 5$

- a) 25
- b) 31
- c) 125
- d) 8
- e) 45

658). $68.25 \times 170 + 28 \times 16.5 - 125 \times 16.5 = ?$

- a) 9600
- b) 9800
- c) 10000
- d) 11500
- e) 11000

659). $487.532 + 2849.029 - 675.48 = 743.095 + ?$

- a) 1620
- b) 1920
- c) 1820
- d) 2020
- e) 1720

660). $142\% \text{ of } 3915 + 2874 = 12600 - ?$

- a) 4615
- b) 4565
- c) 4260
- d) 4090
- e) 4165

656). C)

$? = \sqrt{3598.9} \times [(10008.99)^2 / (10009.001)] \times 0.4987$

$= \sqrt{3600} \times [(10009)^2 / 10009] \times 0.4987$

$= 60 \times 10009 \times 0.5 = 30 \times 10009 = 300270$

657). A)

$39.05 \times 14.95 - 27.99 \times 10.12 = (36 + ?) \times 5$

or, $39 \times 15 - 28 \times 10 = 180 + 5 \times (?)$

or, $5 \times ? = 585 - 280 - 180 = 585 - 460 = 125$

$? = 125/5 = 25$

658). C)

$? = 68.25 \times 170 + 28 \times 16.5 - 125 \times 16.5 = 11602.5$

$+ 462 - 2062.5$

$= 12064.5 - 2062.5 = 10002 = 10000$

659). B)

$? = 487.582 + 2849.029 - 675.48 - 743.095 = 488$

$+ 2849 - 675 - 743 = 1919 - 1920$

660). E)

$? = 12600 - (142 / 100) \times 3915 - 2874$

$= 12600 - 5560 - 2874 = 4166 = 4165$

Directions (Q. 661-665): What approximate value should come in place of question mark in the following questions? (you are not expected to calculate the exact value)

661). $[(\sqrt{530} \times 36.003) \div 47.987] \times ? = 5863.10376$

- a) 640
- b) 750
- c) 340
- d) 360
- e) 680

662). $(77.987\% \text{ of } 358) + (68.55\% \text{ of } 729) = ?$

- a) 780
- b) 705
- c) 840
- d) 825
- e) 695

663). $\sqrt{624.995} + (4.9989)^2 = ? \div (1 / 4.9900865)$

- a) 18



- b) 34
- c) 44
- d) 10
- e) 25

664). $989.001 + 1.00982 \times 76.792 = ?$

- a) 1150
- b) 1070
- c) 1240
- d) 1188
- e) 1044

665). $63.9872 \times 9449.8780 \div 243.003 = (?)^2$

- a) 60
- b) 75
- c) 90
- d) 40
- e) 50

661). C)

$$[(\sqrt{530} \times 36.003) \div 47.987] \times ? = 5863.10376$$

$$? = 5863 / [(\sqrt{529} \times 36) \div 48] = 5863 / [(23 \times 36) \div 48] = 340$$

662). A)

$$? = (77.987\% \text{ of } 358) + (68.55\% \text{ of } 729)$$

$$? = [(78/100) \times 358] + [(69/100) \times 725]$$

$$= 280 + 500 = 780$$

663). D)

$$\sqrt{624.995} + (4.9989)^2$$

$$= ? \div (1 / 4.9900865)$$

$$\text{or, } \sqrt{625} + (5)^2 = ? \div (1/5)$$

$$? = 1/5 (25 + 25) = 10$$

664). B)

$$? = 989.001 + 1.00982 \times 76.792$$

$$= 990 + 1 \times 76.8 = 1066.8 = 1070$$

665). E)

$$(?)^2 = 63.9872 \times 9449.8780 \div 243.0034$$

$$= 64 \times 9450 \div 243 = 64 \times 39 = 2496$$

$$\text{Now, } (?)^2 = 2496$$

$$? = 50$$

Directions (Q. 666-670) : What value will come in place of question mark (?) in the given questions ? (You are not expected to calculate the exact value)

666). $18.05 \times 8.99 - 52.02 = ?$

- a) 140
- b) 75
- c) 160
- d) 110
- e) 150

667). $149.96 \times 3.02 - 114.57 \times 1.93 = ?$

- a) 170
- b) 220
- c) 310
- d) 190
- e) 260

668). $45.04 \div 4.97 = ? \div 12.99$

- a) 104
- b) 91
- c) 120
- d) 117
- e) 143

669). $135.59 \div 7.62 \times 2.93 = 75.01\% \text{ of } ?$

- a) 80
- b) 60
- c) 40
- d) 20
- e) 68

670). $75.05\% \text{ of } (289.96 + 142.01) = ?^2$



a) 10

b) 16

c) 14

d) 18

e) 12

666). D) $18.05 \times 8.99 - 52.02 = ?$

$18 \times 9 - 52 = ?$ 1

$62 - 52 = ?$

$? = 110$

667). B) $149.96 \times 3.02 - 114.57 \times 1.93 = ?$

$150 \times 3 - 115 \times 2 = ?$

$450 - 230 = ?$

$? = 220$

668). D) $45.04 \div 4.97 = ? \div 12.99$

$45 / 5 = ? / 13$

$9 \times 13 = ?$

$? = 117$

669). E) $135.594 \div 7.62 \times 2.93 = 75.01\%$ of ?

$(136/8) \times 3 = (75/100) \times ?$

$17 \times 3 = (3/4) \times ?$

$? = 68$

670). D) 75.05% of $(289.96 + 142.01) = ?^2$

$75/100 \times (290 + 142) = ?^2$

$3/4 \times 432 = ?^2$

$3 \times 108 = ?^2$

$324 = ?^2$

$? = \sqrt{324}$

$? = 18$

Directions (Q. 671-675): What approximate value will come in place of question mark (?) in the given questions? (You are not expected to calculate the exact value.)

671). $619.002 - 134.99 \div 14.998 - (9.01)^2 = ?$

a) 720

b) 530

c) 650

d) 690

e) 490

672). $439.97 \div 15.02 + 208.08 \div 8.01 - 16.01 = ?$

a) 120

b) 60

c) 100

d) 80

e) 40

673). $4^? \times \sqrt{226} = 245.998 \div 8.001 + 929.99$

a) 4

b) 5

c) 2

d) 3

e) 1

674). $? \% \text{ of } (140.06 \times 7.99 - 679.92) = 330.01$

a) 70

b) 90

c) 80

d) 50

e) None of these

675). $40\% \text{ of } 859 + 86.01 \div 7.99 = ?$

a) 398

b) 286

c) 412

d) 215

e) 355

671). B) $? = 619.002 - 134.99 \div 14.998 - (9.01) =$

$620 - 135 \div 15 - (9)^2$

$= 620 - 90 = 530$



672). E) $? = 439.97 \div 15.02 + 208.08 \div 8.01 - 16.01$
 $= 450 \div 15 + 208 \div 8 - 16$
 $= 30 + 26 - 16 = 30 + 10 = 40$

673). D) $4^? \times \sqrt{226} = 245.998 \div 8.001 + 929.99$
or, $4^? \times \sqrt{225} = 248 \div 8 + 930$
or, $4^? \times 15 = 31 + 930 = 961$
or $4^? = 960/15 = 64 = 4^3$
 $? = 3$

674). E) $? \% \text{ of } (140.06 \times 7.99 - 679.92) = 330.01$
 $= [? \times (140 \times 8 - 680)] / 100 = 330$
or, $? \times (1120 - 680) = 330 \times 100$
or, $? \times 440 = 33000$
 $? = 33000 / 440 = 75$

675). E) $? 40\% \text{ of } 859 + 86.01 \div 7.99$
 $= (40 \times 860) / 100 + 86 \div 8$
 $= 344 + 11 = 355$

Directions (Q. 676-680): What approximate value should come in place of question mark (?) in the following questions (?) (you are not expected to calculate the exact value).

676). $180\% \text{ of } 25501 + 50\% \text{ of } 28999 - 7634.97 = ?$
a) 56870
b) 52770
c) 57720
d) 53875
e) 57270

677). $174.995 \times 14.995 \div 25 + ? + 86.93 \times 3.004 = 495$
a) 220
b) 180
c) 105
d) 340

e) 130

678). $140\% \text{ of } 56 + 56\% \text{ of } 140.003 - \sqrt{2026} - ? = 40$
a) 40
b) 220
c) 70
d) 330
e) 180

679). $5687.285 + 4872.35 \div 12 \times 6.989 = 5 \times (3699.98 - ?)$
a) 1740
b) 2096
c) 1910
d) 1860
e) 2000

680). $1325\sqrt{17} + 20\% \text{ of } ? - 83.99 \text{ of } (3/4) = 5500$
a) 520
b) 1280
c) 1320
d) 680
e) None of these

Solution With Answer Key:

676). B) $? = (180/100) \times 25501 + (50/100) \times 28999 - 7634.97$
 $= (9/5) \times 25500 + (1/2) \times 29000 - 7635$
 $= 9 \times 5100 + 14500 - 7635 = 60400 - 7635 = 52765$
 $= 52770$

677). E) $174.995 \times 14.995 \div 25 + ? + 86.93 \times 3.004 = 495$
or, $175 \times 15 \div 25 + ? + 87 \times 3 = 495$
or, $105 + ? + 261 = 495$
or, $? = 495 - 366 = 129 = 130$

678). C) $140\% \text{ of } 56 + 56\% \text{ of } 140 - \sqrt{2026} - ? = 40$



$$\text{or, } (56 + 56)\% \text{ of } 140 - \sqrt{2026} - ? = 40$$

$$\text{or, } 112\% \text{ of } 140 - 45 - ? = 40$$

$$\text{or, } ? = 1.12 \times 140 - 45 - 40 = 156.80 - 85$$

$$\text{or, } ? = 157 - 85 = 72 = 70$$

679).E) $5687.285 + 4872.35 \div 12 \times 6.989$

$$= 5 \times (3699.98 - ?)$$

$$\text{Or, } 5687 + 4872/12 \times 7 = 5 \times (3700 - ?)$$

$$\text{Or, } 5687 + 406 \times 7 = 18500 - 5 \times ?$$

$$\text{Or, } ? = 18500 - 5687 - 2842/5 = 9971/5$$

$$= 1994.2 = 2000$$

680).A) $1325 \times \sqrt{17} + 20\% \text{ of } ? - 83.99 \times \frac{3}{4}$

$$= 5500$$

$$\text{Or, } 1325 \times 4.12 + ? \times 1/5 - 84 \times \frac{3}{4} = 5500$$

$$\text{Or, } 5459 + ?/5 - 63 = 5500$$

$$\text{Or, } ?/5 = 5500 + 63 - 5459 = 5563 - 5459 = 104$$

$$? = 104 \times 5 = 520$$

Directions (Q. 681-685): What will come in place of Question mark (?) in the following questions?

681). $17/9 \text{ of } 4/51 \text{ of } 54/7 \text{ of } 560 = ?$

a) 560

b) 650

c) 640

d) 460

e) None of these

682). $58\% \text{ of } 850 + ? = 1224 - 603$

a) 128

b) 130

c) 138

d) 140

e) None of these

683). $27^{2.5} \times ((243)^3)^? = 3^{22.5}$

a) 4

b) 3

c) 2

d) 1

e) None of these

684). $36.06 \times 35 + ? + 624.9 = 2323$

a) 437

b) 436

c) 389

d) 463

e) None of these

685). $\sqrt[3]{175616} \times \sqrt{1936} + (36)^2 = ?$

a) 3760

b) 3860

c) 3764

d) 3770

e) None of these

681). C) $? = (17/9) \times (4/51) \times (54/7) \times 560 = 640$

682). A) $58\% \text{ of } 850 + ? = 1224 - 603$

$$? = 1224 - 603 - (58/100) \times 850 = 621 - 493 = 128$$

683). D) $27^{2.5} \times ((243)^3)^? = 3^{22.5}$

$$\text{or, } (3^3)^{2.5} \times ((3^5)^3)^? = 3^{22.5}$$

$$\text{or, } 3^{3 \times 2.5} \times 3^{5 \times 3 \times ?} = 3^{22.5}$$

$$\text{or, } 15 \times ? = 22.5 - 7.5 = 15$$

$$? = 15/15 = 1$$

684). B) $? = 2323 - 36.06 \times 35 - 624.9$

$$= 2323 - 1262.1 - 624.9 = 2323 - 1887 = 436$$

685). A) $? = 3\sqrt{175616} \times \sqrt{1936} + (36)^2$

$$= 56 \times 44 + 1296 = 2464 + 1296 = 3760$$

Directions (Q. 686-690): What value should come in place of question mark (?) in the following questions?

686). $\{[3\sqrt{(2197+3 \times 13 \times 14 \times 27+2744)}] / (196+364+169)\}^{1/3} = ?$



- a) 27
- b) 1/9
- c) 9
- d) 1/3
- e) 1/27

687). $(28/9) \times (17/8) \div (153/6) + [1 \frac{41}{45}] = ?$

- a) 1 $\frac{23}{135}$
- b) 2 $\frac{23}{135}$
- c) 3 $\frac{27}{29}$
- d) 2 $\frac{29}{135}$
- e) None of these

688). 28% of 3540 + 26% of 4550 + 24% of 5060 = ?

- a) 3488.5
- b) 3833.6
- c) 3388.6
- d) 3500
- e) None of these

689). $[(8 \frac{1}{3}) \div (175/27)] \div [(2 \frac{5}{14}) - (1 \frac{1}{28})] = ?$

- a) 36/37
- b) 35/37
- c) 35/36
- d) 37/35
- e) None of these

690). $\sqrt{(0.2304) \times 0.012 \times 16} = ?$

- a) 0.09467
- b) 0.02216
- c) 0.9858
- d) 0.09565
- e) None of these

686). D)

We know that

$$a^3 + 3ab(a+b) + b^3 = (a+b)^3$$

$$? = [^3\sqrt{(2197+3 \times 13 \times 14 \times 27+2744)} / (196+364+169)]^{1/3}$$

$$= [^3\sqrt{(13+14)^3 / 729}]^{1/3}$$

$$= (27/729)^{1/3} = 1/3$$

687). B)

$$? = (28/9) \times (17/8) \times (6/153) \times (1 \frac{41}{45})$$

$$= (7/27) + (86/45) = (35 + 258) / 135 = 293/135 = 2 \frac{23}{135}$$

688). C)

Solving by breaking method,

$$? = 20\% \text{ of } 3540 + 8\% \text{ of } 3540 + 20\% \text{ of } 4550 + 6\% \text{ of } 4550 + 20\% \text{ of } 5060 + 4\% \text{ of } 5060$$

$$= 708 + 283.2 + 910 + 273 + 1012 + 202.4$$

$$= 3388.6$$

689). A)

$$[(25/3) \times (27/175)] \div \{(2-1) + [(5/14) - (1/28)]\}$$

$$= (9/7) \div \{1 + [(10-1)/28]\} = (9/7) \div (37/28)$$

$$= (9/7) \times (28/37) = 36/37$$

690). E)

$$? = \sqrt{(0.23.4) \times 0.012 \times 16} = 0.48 \times 0.012 \times 16 =$$

$$0.09216$$

Directions (Q. 691-695): What approximate value should come in place of question mark (?) in the given questions (?) (You are not expected to calculate the exact value.)

691). $\sqrt{2705} \div 3.996 \times 25.986 + 26.013 = ?$

- a) 370
- b) 380
- c) 390
- d) 356
- e) 388

692). $\sqrt{?} = (4042.137 + 59.891) \div 101.047 + 6.876$

- a) 2125
- b) 2200



- c) 2250
- d) 2300
- e) 2460

693). (19.96% of 479.998) ÷ ? = 249.82% of 12.1136

- a) 2
- b) 3
- c) 4.5
- d) 6
- e) 4

694). (27 /12.123) of 131. 932 = ? ÷ (36 x 5)

- a) 54650
- b) 52600
- c) 54800
- d) 57350
- e) 53500

695). $27^{1.5} \times ((3)^3)^? = 27^3 \times 3^4$

- a) 1
- b) 2
- c) 3
- d) 4
- e) 1.5

Solution:

691). A) $? = \sqrt{2705} \div 3.996 \times 25.986 + 26.013$
 $= 2704 \div 4 \times 26 + 26 = 52 \div 4 \times 26 + 26 = 13 \times 26 + 26 = 364 = 370$

692). C) $\sqrt{?} = (4042.137 + 59.891) \div 101.047 + 6.876$

$= (4040 + 60) \div 100 + 6$
 $= 4100 \div 101 + 7$
 $= 40.6 + 7 = 47.6$
 $? = (47.6)^2 = 2267 = 2250$

693). B) (19.96% of 479.998) ÷ ? = 249.82% of 12.1136

or, (20% of 480) ÷ ? = (250/100) × 12
or, $96 \div ? = 30$
 $? = (96/30) = 3.2 = 3$

694). E) (27/12.123) of 131.932 = ? ÷ (36×5)

or, $(27/12) \times 132 = ? \div (36 \times 5)$
 $? = 27 \times 11 = ? \div 180$
 $? = 27 \times 11 \times 180 = 53460 = 53500$

695). C) $27^{1.5} \times ((3)^3)^? = 27^3 \times 3^4$

Or, $((3)^3)^{1.5} \times ((3)^3)^? = ((3)^3)^5 \times (3)^4$
Or, $(3)^{4.5} \times 3^{3 \times ?} = 3^{9+4}$
 $3 \times ? = 8.5$
 $? = 2.8 = 3$

Directions (Q. 696-700): What should come in place of the question mark (?) in the following questions?

696). 1.65% of 310 + 1.75% of 430 = ?

- a) 10.27
- b) 12.64
- c) 14.44
- d) 16.56
- e) None of these

697). 30% of (2/7) of (2/9) of (2/5) of (2/3) of 9450 = ?

- a) 32
- b) 36
- c) 42
- d) 48
- e) 52

698). $361/? = ?/289$

- a) 357
- b) 399
- c) 323
- d) 327



e) None of these

699). If $15625 = (x^2)^3$, then $x = ?$

- a) 3
- b) 4
- c) 5
- d) 7
- e) 9

700). $(1/1024)^{-2/5} + (1/343)^{-2/3} = ? \times 5$

- a) 65
- b) 42
- c) 13
- d) 21
- e) 27

696). $? = 1.65\% \text{ of } 310 + 1.75\% \text{ of } 430$

$$= [(1.65 \times 310) / 100] + [(1.75 \times 430) / 100]$$

$$= 5.115 + 7.525 = 12.64$$

Answer: b)

697). $? = 30\% \text{ of } 2/7 \text{ of } 2/9 \text{ of } 2/5 \text{ of } 2/3 \text{ of } 9450$

$$= 30\% \text{ of } [(16/945) \times 9450]$$

$$= 30\% \text{ of } 160 = 48$$

Answer: d)

698). $361/? = ?/289$

$$(?)^2 = 361 \times 289$$

$$(?)^2 = (19)^2 \times (17)^2$$

$$? = 19 \times 17 = 323$$

Answer: c)

699). $15625 = (x^2)^3$

$$(x^2)^3 = 15625 = (5)^6$$

$$x^6 = 5^6$$

$$x = 5$$

Answer: c)

700). $(1/1024)^{-2/5} + (1/343)^{-2/3} = ? \times 5$

$$(1/4^5)^{-2/5} + (1/7^3)^{-2/3} = ? \times 5$$

$$4^2 + 7^2 = ? \times 5$$

$$16 + 49 = ? \times 5$$

$$65 = ? \times 5$$

$$? = 65/5 = 13$$

Answer: c)

Directions (Q. 701-705): What should come in place of question mark (?) in the following questions?

701). $175\% \text{ of } 460 + 110\% \text{ of } 170 + 2^? = 10^?$

- a) 3
- b) 4
- c) 5
- d) 2
- e) 1

702). $18^{7.9} \times 3^{0.1} \times 6^{0.1} + (3^4 \times 6^4) = 18^?$

- a) 1
- b) 2
- c) 3
- d) 4
- e) 5

703). $3 \frac{1}{7} + 2 \frac{3}{5} + 7 \frac{1}{5} - 5 \frac{3}{7} - 18/35 = 35/?$

- a) 3
- b) 5
- c) 7
- d) 9
- e) 11

704). $33\% \text{ of } 120 + 54\% \text{ of } 110 = ?\% \text{ of } 300$

- a) 30
- b) 31
- c) 32
- d) 33
- e) 35



705). $\sqrt{3969} - \sqrt{2209} + 9 = \sqrt[3]{68921} - ?$

- a) 12
- b) 13
- c) 14
- d) 15
- e) 16

701). A) $[(175 \times 460) / 100] + [(110 \times 170) / 100] + 2^? = 10^?$

or, $805 + 187 + 2^? = 10^?$

or, $992 + 2^? = 10^?$

For $? = '3'$ it is $992 + 2^3 = 1000 = 10^3$

$? = 3$

702). D) $18^{7.9} \times 18^{0.1} \div 18^4 = 18^?$

or, $18^? = 18^{(7.9 + 0.1 - 4)} = 18^4$

$? = 4$

703). B) $(22/7) + (13/5) + (36/5) - (38/7) - (18/35)$

$= (110 + 91 + 252 - 190 - 18) / 35 = 245/35 = 7$

$? = 35/7 = 5$

704). D) $[(300 \times ?)/100] 33\% \text{ of } 120 + 54\% \text{ of } 110 =$

$39.6 + 59.4 = 99$

$? = (99 \times 100) / 300 = 33$

705). E) $63 - 47 + 9 = 41 - ?$

$25 = 41 - ?$

$? = 16$

Directions (Q. 706-710): What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value.)

706). $[7.995 + 25.96 + 13.02] \div 2.490 = ?$

- a) 30
- b) 4
- c) 9
- d) 19
- e) 1

707). $(5.95 \times 8.06) \div (8.03 \times 2.04) = ? - 4.95$

- a) 4
- b) 16
- c) 8
- d) 40
- e) 20

708). $4.014 \div 1.894 \times 15.011 \div 8.971 = (?)$

- a) 9
- b) 15
- c) 3
- d) 12
- e) 10

709). $(6.90)^3 - (2.99)^3 - (6.02)^3 = (?)^2$

- a) 50
- b) 25
- c) 10
- d) 1
- e) 100

710). $[(6.03 \times 2.98) - (1.99 \times 2.01^2)] / (2.05^3 - 36^{0.5}) = ?$

- a) 1
- b) 20
- c) 10
- d) 15
- e) 5

Solution:

706). d) $? = (7.995 + 25.96 + 13.02) \div 2.490$

$= (8 + 26 + 13) \div 2.5 = 47 \div 2.5 \approx 19$

707). c) $? - 4.95 = (5.95 \times 8.06) \div (8.03 \times 2.04)$

or, $? - 5 = (6 \times 8) / (8 \times 2) = 3$

$? \approx 3 + 5 = 8$

708). c) $(?) = 4.014 \div 1.894 \times 15.011 \div 8.971$

$\approx 4 \div 2 \times 15 \div 9 = 2 \times 15 \div 9 = (30/9) \approx 3$

709). c) $(?)^2 = (6.90)^3 - (2.99)^3 - (6.02)^3$



$$\approx (7)^3 - (3)^3 - (6)^3$$

$$= 343 - 27 - 216 = 343 - 243 = 100$$

$$? = \sqrt{100} = 10$$

710). e) ? = $[(6.03 \times 2.98) - (1.99 \times 2.01^2)] / [(2.05)^3 - 36^{0.5}]$

$$(2.05)^3 - 36^{0.5}]$$

$$= (6 \times 3 - 2 \times 2^2) / [(2)^3 - (36)^{1/2}] = 10 / (8-6) = 10/2 \approx 5$$

Directions (Q. 711-715): What value should come in the place of question mark (?) in the following equations :

711). $(4.913)^{2/3} \div 2.89 \times (8.3521)^{-1.2} = (1.7)^?$

- a) 3.2
- b) -4.8
- c) 1.2
- d) -4.2
- e) 2.4

712). $[(21/34) \text{ of } \sqrt{(4624)}] \div 0.6 = ?$

- a) 60
- b) 64
- c) 70
- d) 72
- e) 84

713). $0.78 + ? \times 72 = 13.74$

- a) 1.2
- b) 0.96
- c) 0.8
- d) 0.24
- e) 0.18

714). $[(546)^2 \div 91] \div 12 = ? \div 8$

- a) 2104
- b) 2136
- c) 2168
- d) 2184

e) 2196

715). $3/7 \text{ of } 5/11 \times 2772 = 30\% \text{ of?}$

- a) 1200
- b) 1500
- c) 1600
- d) 1800
- e) 2100

Solution:

711). B) $(1.73)^{2/3} \div (1.7)^2 \times (1.74)^{-1.2}$

$$(1.7)^2 \div (1.7)^2 \times (1.7)^{-4.8} = (1.7)^{2-2-4.8} = (1.7)^{-4.8}$$

$$? = -4.8$$

712). C) $[(21/34) \times 68] \div 0.6 = 42 \div 0.6 = 70$

713). E) $? \times 72 = 13.74 - 0.78 = 12.96$

$$? = 12.96/72 = 0.18$$

714). D) $? \div 8 = [(546 \times 546)/91] \div 12 = 3276 \div 12 = 273$

$$? = 273 \times 8 = 2184$$

715). D) $(30 \times ?)/100 = (3 \times 5 \times 2772) / (7 \times 11) = 540$

$$? = (540 \times 10) / 3 = 1800$$

Directions (Q. 716-720): What value should come in the place of question mark (?) in the following equations?

716). $213 \times 68 = 246228 \div ?$

- a) 16
- b) 17
- c) 18
- d) 19
- e) 21

717). $(19)^{7.3} \times (1/6859) \div (361)^{-2.1} = (\sqrt{19})^?$

- a) 7.5
- b) 15
- c) 8.5



d) 17

e) 9.5

718). $\sqrt[3]{[(46600)+\sqrt{3136}] + \sqrt[3]{[(29750) + \sqrt{1681}]} = ?$

a) 61

b) 63

c) 65

d) 67

e) 69

719). $2197/? = ?/1872$

a) 2028

b) 2132

c) 2248

d) 2372

e) 2496

720). $7.4 \% \text{ of } 3455 + 6.25 \% \text{ of } 293.28 = ?$

a) 248

b) 256

c) 268

d) 274

e) 286

716). B)

717). D) $(19)^{7.3} \times (19)^{-3} \div (19)^{-4.2} = (19)^{7.3 - 3 + 4.2} =$

$(19)^{8.5} = (\sqrt{19})^{17}$

718). D) $\sqrt[3]{(46600 + 56)} + \sqrt[3]{(29750 + 41)} = \sqrt[3]{46656}$

$+ \sqrt[3]{29791}$

$= 36 + 31 = 67$

719). A) $(?)^2 = 2197 \times 1872 = 169 \times 13 \times 13 \times 144 =$

$(13 \times 13 \times 12)^2$

$? = 13 \times 13 \times 12 = 2028$

720). D) $? = (7.4 \times 34.55) + (6.25 \times 2.9328) = 255.67 +$

$18.33 = 274$

Directions (721-730): What value should come in the place of question mark (?) in the following equations?

721) $15 \times 16 \times (9/8) \times (4/7) \times (3/13) \times (26/7) \times 49$

$= ?$

A) 6480

B) 6305

C) 6245

D) 6100

E) 6877

722) If $(x + 1) / x = 2$ then $(x^4 + 1 + 7x^2) / x^2[x^3 + (1/x)^3] = ?$

A) $7/2$

B) $9/2$

C) $8/3$

D) $7/4$

E) None of these

723) $15 \% \text{ of } (3/4) \text{ of } (8/9) \text{ of } 1199.91 = ?$

A) 120

B) 144

C) 115

D) 134

E) None of these

724) $49.89 \% \text{ of } 1999.91 - 28.98 \% \text{ of } 3499.99 = ?$

A) -11

B) -17

C) -13

D) -9

E) -15

725) $(18.3)^2 + (27.7)^2 - (13.6)^2 = x + \sqrt{2209}$

A) 881.33

B) 748.6

C) 870.22

D) 845

E) 748.24

726) $(562.5 \times 6)^6 \div (135 \div 9)^{10} \div (37.5 \times 6)^7 = (3.75 \times 4)^{x-6}$

A) 3



- B) 1
C) 8
D) 4
E) 0

727) $8749 \times 18896 - 154567023 = x + 184962$

- A) 21100012
B) 14578933
C) 10569119
D) 11758249
E) 13045781

728) $(2\sqrt{13} + 6\sqrt{13})(11\sqrt{13} + 17\sqrt{13}) = ?$

- A) 2912
B) 3005
C) 2807
D) 2714
E) None of these

729) $\sqrt{7569} \times 49 + 27 + 571787 \div 83 = ?$

- A) 13124
B) 14293
C) 13478
D) 11179
E) 12478

730) $15752961 \div 27 \div 63 \div 3 = ?$

- A) 2978
B) 3247
C) 3457
D) 3087
E) 2578

721) A
6480

722) B
 $(x+1)/x = 2$

$\Rightarrow x = 1$

$\Rightarrow (x^4 + 1 + 7x^2) / x^2[x^3 + (1/x)^3] = 9 / 2$

723) A

$1199.91 \approx 1200$

$= 15 \% \text{ of } (3/4) \text{ of } (8/9) \text{ of } 1200$

$= 120$

724) E

$49.89 \quad 50$

$1999.91 \quad 2000$

$28.98 \quad 29$

$3499.99 \approx 3500$

$50 \% \text{ of } 2000 - 29\% \text{ of } 3500 = 1000 - 1015 = -15$

725) C

870.22

726) E

$(15^3)^6 \div (15)^{10} \div (15^2)^7 = (15)^{x-6}$

$\Rightarrow (15)^{18-10-14} = (15)^{x-6}$

$\Rightarrow -6 = x - 6$

$\Rightarrow x = 0$

727) C

10569119

728) A

2912

729) D

11179

730) D

3087

Directions: What value should come in place of x in the following questions?



731) $42\% \text{ of } 450 + 20\% \text{ of } 385 - 15\% \text{ of } 320 = x$

- A) 299
- B) 261
- C) 276
- D) 223
- E) 218

732) $14 \times 21 + 16 \times 28 - 14 \times 15 + 18 \times 13 = x$

- A) 766
- B) 822
- C) 752
- D) 887
- E) 793

733) $14\% \text{ of } 250 + 65\% \text{ of } 380 - 13\% \text{ of } 630 = x$

- A) 232.1
- B) 195.1
- C) 247.1
- D) 200.1
- E) 170.1

734) $703 \div 19 \times 13 + 24\% \text{ of } 250 - 18\% \text{ of } 450 = x$

- A) 380
- B) 430
- C) 460
- D) 520
- E) 530

735) $1243 + 2369 + 598 \div 23 \times 2 - 16^2 = x$

- A) 3756
- B) 3089
- C) 3529
- D) 3729
- E) 3408

736) $\sqrt{1849} + \sqrt{3136} \div 64^{1/3} - \sqrt{676} = x$

- A) 31
- B) 18

C) 19

D) 29

E) 37

737) $\sqrt{1156} \times 1044 \div 29 - 26\% \text{ of } 550 = x$

- A) 1199
- B) 1021
- C) 1081
- D) 1265
- E) 1170

738) $35\% \text{ of } 540 + \sqrt{1369} - 423 \div 3 = x$

- A) 104
- B) 54
- C) 85
- D) 74
- E) 98

739) $45\% \text{ of } 260 + 2744^{1/3} \div 343^{1/3} - 12\% \text{ of } 150 = x$

- A) 114
- B) 101
- C) 112
- D) 110
- E) 129

740) $16 \times 47 + \sqrt{2209} - 34^2 + 12^3 = x$

- A) 1423
- B) 1371
- C) 1577
- D) 1448
- E) None of these

Solution(731-740)

731) E

$189 + 77 - 48 = 218$

732) A

$294 + 448 - 210 + 234 = 766$



733) D

$$35 + 247 - 81.9 = 200.1$$

734) C

$$37 \times 13 + 60 - 81 = 460$$

735) E

$$3612 + 26 \times 2 - 256 = 3408$$

736) A

$$43 + 56 \div 4 - 26 = 31$$

737) C

$$34 \times 36 - 143 = 1081$$

738) C

$$189 + 37 - 141 = 85$$

739) B

$$117 + 14 \div 7 - 18 = 101$$

740) B

$$752 + 47 - 1156 + 1728 = 1371$$

Direction(741-750): What approximate value should come in place of question mark (?) in the following questions?

741) $286.04 \times 11.646 + 65.37 \times 54.08 = ? + 137.989$

- A) 7000
- B) 6750
- C) 6800
- D) 6700
- E) 6680

742) $85943 - 71206 + 37517 - 3512 + 119 = ?$

- A) 48870
- B) 43780

C) 42680

D) 46590

E) None of these.

743) $20440 \div 639.890 = \sqrt{?}$

- A) 984
- B) 1110
- C) 900
- D) 1024
- E) 1200

744) $122.05\% \text{ of } 120 + 149.99\% \text{ of } 150 = ?$

- A) 371
- B) 380
- C) 350
- D) 385
- E) 360

745) $(9.899)^3 \times (2.399)^2 \times (4.005)^4 = ?$

- A) 144800
- B) 140000
- C) 1428200
- D) 1458000
- E) None of these.

746) $999.99 \div 25.012 = ? - 235.448$

- A) 265
- B) 255
- C) 275
- D) 285
- E) None of these.

747) $633.72 - 569.21 + (11.9\% \text{ of } 80) = ?$

- A) 6.667
- B) 575
- C) 7
- D) 600



E) None of these.

748) $67.39 - 11.78 + 19.63 = ? + 22.41$

- A) 56
- B) 54
- C) 58
- D) 60
- E) 50

749) $(49.999)^2 + (59.96)^2 + (64.501)^2 = ?$

- A) 16425
- B) 12369
- C) 10260
- D) 13425
- E) None of these.

750) $\sqrt{1225} + \sqrt{2209} - \sqrt{5329} = \sqrt{?}$

- A) 81
- B) 9
- C) 18
- D) 729
- E) None of these.

Solution(741-750):

741) C

$$? + 137.989 = 286.04 \times 11.646 + 65.37 \times 54.08$$

$$286 \times 12 + 65 \times 54$$

$$3432 + 3510 = 6942$$

$$\text{Or, } ? + 138 = 6942$$

$$? = 6942 - 138 = 6804 = 6800$$

742) A

$$85940 - 71200 + 37520 - 3510 + 120 = 48870$$

743) D

$$\sqrt{(?)} = 20440 \div 640 = 31.99 = 32 = 32 \times 32 = 1084$$

744) A

$$(122 \times 120 / 100) + (150 \times 150 / 100)$$

$$= (146.4 + 225)$$

$$= 371.4 = 371$$

745) C

$$(9.9)^3 \times (2.4)^2 \times (4)^4 =$$

$$(970.299) \times (5.76) \times 256$$

$$(970.3) \times (5.75) \times 256 = 1428281.6 = 1428200$$

746) C

$$1000 / 25 = ? - 235$$

$$40 = ? - 235$$

$$? = 235 + 40 = 275$$

747) B

$$? = 633.72 - 569.21 \div (11.9\% \text{ of } 80) = 634 -$$

$$570 \div (80 \times 12) / 100 = 634 - 570 / 9.6 = 634 - 59.375 = 575$$

(appx)

748) B

$$67.39 - 11.78 + 19.63 = ? + 22.41$$

$$68 - 12 + 20 = ? + 22 = 88 - 12 - 22 = 54$$

749) C

$$? = (500)^2 + (60)^2 + (64.5)^2 = 2500 + 3600 + 4160.25 =$$

$$10260$$

750) A

$$\sqrt{1225} + \sqrt{2209} - \sqrt{5329} = \sqrt{?}$$

$$35 + 47 - 73 = 9$$

$$? = 81$$



Directions(751-760): What value should come in place of x in the following questions?

751) $45\% \text{ of } 220 + 65\% \text{ of } 520 - 15\% \text{ of } 920 = x$

- A) 299
- B) 261
- C) 276
- D) 223
- E) 264

752) $42 \times 21 \div 6 + 623 + \sqrt{2704} = x$

- A) 764
- B) 822
- C) 752
- D) 887
- E) 793

753) $(37)^2 - \sqrt{841} + 25\% \text{ of } 580 = x$

- A) 1327
- B) 1757
- C) 1476
- D) 1485
- E) 1708

754) $1 \frac{1}{3} + 2 \frac{1}{2} + 3 \frac{1}{4} + 3 \frac{5}{6} = x$

- A) $11 \frac{7}{12}$
- B) $13 \frac{7}{12}$
- C) $12 \frac{11}{12}$
- D) $10 \frac{5}{12}$
- E) $10 \frac{11}{12}$

755) $2450 + 1270 - 67\% \text{ of } 2300 = x$

- A) 2756
- B) 2089
- C) 2529
- D) 2729
- E) 2179

756) $47\% \text{ of } 4300 - 26\% \text{ of } 550 + 15\% \text{ of } 420 = x$

- A) 1941
- B) 1834
- C) 1953
- D) 1926
- E) 1766

757) $45\% \text{ of } 670 + 23\% \text{ of } 250 + 16\% \text{ of } 560 = x$

- A) 429.6
- B) 432.6
- C) 448.6
- D) 456.6
- E) 472.6

758) $621 \div 23 + 28\% \text{ of } 750 = x + 36\% \text{ of } 350$

- A) 104
- B) 154
- C) 111
- D) 124
- E) 118

759) $38\% \text{ of } 450 + 28\% \text{ of } 150 - 45\% \text{ of } 260 = x\% \text{ of } 600$

- A) 14
- B) 16
- C) 12
- D) 10
- E) 9

760) $2 \frac{1}{2} + 3 \frac{4}{5} + 2 \frac{1}{6} - 4 \frac{1}{3} = x$

- A) $3 \frac{4}{5}$
- B) $4 \frac{2}{15}$
- C) $2 \frac{5}{12}$
- D) $4 \frac{7}{10}$
- E) $4 \frac{2}{13}$

Solution(751-760):

751) A



$$99 + 338 - 138$$

752) B

$$147 + 623 + 52$$

753) D

$$1369 - 29 + 145$$

754) E

$$(1 + 2 + 3 + 3) + (1/3 + 1/2 + 1/4 + 5/6)$$

$$9 + (23/12)$$

$$= 9 + 1 \frac{11}{12}$$

$$= (9 + 1) + 11/12$$

$$= 10 \frac{11}{12}$$

755) E

756) A

$$2021 - 143 + 63$$

757) C

$$301.5 + 57.5 + 89.6$$

758) C

$$27 + 210 - 126$$

759) B

$$171 + 42 - 117 = x/100 * 600$$

760) B

$$2 \frac{1}{2} + 3 \frac{4}{5} + 2 \frac{1}{6} - 4 \frac{1}{3}$$

$$(2 + 3 + 2 - 4) + (1/2 + 4/5 + 1/6 - 1/3)$$

$$= 3 + 17/15$$

$$= 3 + (1 \frac{2}{15})$$

$$= 4 \frac{2}{15}$$

Directions(761-770): What approximate value should come in place of the x in the following questions?

(Note: You are not expected to calculate the exact value.)

$$761) 36.02\% \text{ of } 449.98 - 14.95\% \text{ of } 180.07 = x - \sqrt{280} \% \text{ of } 3699.99$$

A) 784

B) 740

C) 736

D) 796

E) 764

$$762) 15^2 - 13^2 + 9^2 - 6^3 = 9^4 - x$$

A) 6640

B) 6730

C) 6520

D) 6870

E) 8930

$$763) \sqrt{1370} + 1060 \div 18.002 \times 32.09\% \text{ of } 249.99 = x$$

A) 5327

B) 4757

C) 3476

D) 5376

E) 3708

$$764) \frac{3}{7} \times 1090 + 405 \div 17 - 17.03\% \text{ of } 465 = x$$

A) 396

B) 435

C) 413

D) 379

E) 368

$$765) 20.95\% \text{ of } 410 - 86.03\% \text{ of } 235 = \sqrt{x} - 3000 \div 20.98$$

A) 756

B) 1089

C) 529

D) 729



E) None of these

766) $\sqrt{(43\% \text{ of } 549 + 28\% \text{ of } 1550)} = x$

A) 24 or -24

B) 26 or -26

C) 27 or -27

D) 32 or -32

E) None of these

767) $23\% \text{ of } 165 + 34.09\% \text{ of } 44 - 13\% \text{ of } 600 = x$

A) -18

B) -32

C) -29

D) -25

E) -15

768) $470 \div 18 + 17.08 \times 35.98 - \sqrt{6240} = x$

A) 480

B) 440

C) 530

D) 560

E) 520

769) $36.09\% \text{ of } 450 + 23.99\% \text{ of } 150 - 43.94\% \text{ of } 260 = x\% \text{ of } 700$

A) 14

B) 16

C) 12

D) 10

E) 9

770) $18.08\% \text{ of } 549.99 - 44.98\% \text{ of } 202.09 = (x)^{1/4}$

A) 2401

B) 6561

C) 4096

D) 3659

E) 5248

761) E

$36\% \text{ of } 450 = 162$

$15\% \text{ of } 180 = 27$

$17\% \text{ of } 3700 = 629$

762) A

763) B

$\sqrt{1370} = 37$

$1060 \div 18 = 59$

$32\% \text{ of } 250 = 80$

764) C

$3/7 \times 1090 = 468$

$405 \div 17 = 24$

$17\% \text{ of } 465 = 79$

765) D

$21\% \text{ of } 410 = 86$

$86\% \text{ of } 235 = 202$

$3000 \div 21 = 143$

So $(86 - 202 + 143) = \sqrt{x}$

766) E

$43\% \text{ of } 549 = 236$

$28\% \text{ of } 1550 = 434$

So $\sqrt{(236+434)} = x$

So $x = \sqrt{676} = 26$. Root does not give negative value.

767) D 768) D 769) C 770) B

Directions(761-770): What value should come in place of the x in the following questions?

771) $22\% \text{ of } 350 + 35\% \text{ of } 420 = 16\% \text{ of } 250 + x$

A) 184

B) 144

C) 136

D) 196



E) 148

772) $1\frac{1}{4} + 2\frac{4}{5} + 3\frac{5}{8} + 2\frac{3}{10} = x$

A) $10\frac{19}{40}$

B) $9\frac{17}{30}$

C) $9\frac{19}{25}$

D) $8\frac{29}{35}$

E) $9\frac{39}{40}$

773) $1008 \div 16 \times \frac{3}{7} + 19 \times 204 = 13 \times 15 + x$

A) 5327

B) 3099

C) 3476

D) 5376

E) 3708

774) $(0.6)^{5/4} \div (0.36)^{3/8} \times (0.3)^{13/12} \div (0.09)^{7/24} = (0.18)^{1-x}$

A) $-1/2$

B) $1/2$

C) $-4/3$

D) $1/4$

E) $5/6$

775) $1\frac{1}{2} + 2\frac{2}{3} + 3\frac{1}{6} + 4\frac{3}{8} = x$

A) $11\frac{8}{15}$

B) $10\frac{5}{21}$

C) $11\frac{17}{24}$

D) $12\frac{3}{10}$

E) $10\frac{13}{21}$

776) $(0.4)^{17/16} \div (0.16)^{3/32} \times (0.3)^{5/4} \div (0.09)^{3/16} = (0.12)^x$

A) $7/8$

B) $1/5$

C) $7/5$

D) $9/13$

E) $6/11$

777) $3\frac{9}{14} \times 1\frac{4}{17} \times 2\frac{16}{18} - 2\frac{3}{4} = x$

A) $11\frac{1}{3}$

B) $8\frac{2}{4}$

C) $10\frac{1}{6}$

D) $9\frac{1}{5}$

E) $10\frac{1}{4}$

778) $\frac{6}{7} \times 392 + 25\% \text{ of } 260 = 16\% \text{ of } 550 + x$

A) 387

B) 345

C) 313

D) 307

E) 328

779) $30\% \text{ of } 470 + 24\% \text{ of } 250 - 45\% \text{ of } 260 = \sqrt{x}$

A) 6946

B) 7126

C) 6576

D) 7056

E) 7686

780) $18\% \text{ of } 550 - 45\% \text{ of } 200 = (x)^{1/3}$

A) 679

B) 729

C) 627

D) 734

E) 719

Solution (771-780):

771) A

772) D

$1\frac{1}{4} + 2\frac{4}{5} + 3\frac{5}{8} + 2\frac{3}{10}$

$[1\frac{1}{4} + 3\frac{5}{8}] + [2\frac{4}{5} + 2\frac{3}{10}]$

$[1 + 3 + \frac{1}{4} + \frac{5}{8}] + [2 + 2 + \frac{4}{5} + \frac{3}{10}]$

$[4 + \frac{11}{10}] + [4 + \frac{7}{8}]$



$$[4 + 4 + 11/10 + 7/8]$$

$$[8 + 79/40] = 9 \frac{39}{40}$$

773) E

$$1008 \div 16 \times \frac{3}{7} + 19 \times 204 - 13 \times 15$$

$$1008/16 \times \frac{3}{7} + 3876 - 185$$

$$27 + 3876 - 185$$

774) B

$$(0.6)^{5/4} \div (0.36)^{3/8} = (0.6)^{5/4} \div (0.6)^{2 \times 3/8} = (0.6)^{5/4} \div$$

$$(0.6)^{3/4} = (0.6)^{5/4 - 3/4} = (0.6)^{1/2}$$

$$\text{Similarly, } (0.3)^{13/12} \div (0.09)^{7/24} = (0.3)^{1/2}$$

$$\text{So } (0.6)^{1/2} \times (0.3)^{1/2} = (0.18)^{1/2}$$

$$\text{So } (0.18)^{1/2} = (0.18)^{1-x} \text{ gives } 1/2 = 1 - x, \text{ So } x = 1/2$$

775) C

$$(0.4)^{17/16} \div (0.16)^{3/32} \times (0.3)^{5/4} \div (0.09)^{-3/16}$$

$$= (0.4)^{7/8} \times (0.3)^{7/8}$$

776) A

$$(0.4)^{17/16} \div (0.16)^{3/32} \times (0.3)^{5/4} \div (0.09)^{-3/16}$$

$$= (0.4)^{7/8} \times (0.3)^{7/8}$$

777) E 778) C 779) D 780) B

Directions (771-780): What value should come in place of the x in the following questions?

$$781) 4(2/3) + 6(7/5) - 11(5/3) + 3(4/7) = ?$$

$$A) 2(103/105)$$

$$B) 2(102/105)$$

$$C) 2(105/103)$$

$$D) 2(105/102)$$

$$E) \text{ None of these}$$

$$782) (4/7) \times 2126 + 11.4 + 26\% \text{ of } 520$$

$$A) 241.2$$

$$B) 241.3$$

$$C) 241.4$$

$$D) 241.5$$

$$E) \text{ None of these}$$

$$783) 15.006 \times ? \times 25.985 = 56745$$

$$A) 145.62$$

$$B) 145.53$$

$$C) 143.55$$

$$D) 143.57$$

$$E) \text{ None of these}$$

$$784) (50)^3 \div (25)^2 + 2466 = ?$$

$$A) 2666$$

$$B) 2654$$

$$C) 2456$$

$$D) 2342$$

$$E) \text{ None of these}$$

$$785) [(5.6/7.8 \times 9.8/2.88) \div (34.2/6 \times 20/4.5)] \% \text{ of } 2345 = ?$$

$$A) 2.20$$

$$B) 2.21$$

$$C) 2.22$$

$$D) 2.23$$

$$E) \text{ None of these}$$

$$786) 1006.7 + 12328.98 - 5644.64 = 12543 - ?$$

$$A) 4851.94$$

$$B) 4851.95$$

$$C) 4851.96$$

$$D) 4851.97$$

$$E) \text{ None of these}$$

$$787) 45\% \text{ of } 2345 + 56\% \text{ of } 765 - 12\% \text{ of } 789 \times 75\% \text{ of } 433 - ? = 0$$

$$A) 29263.68$$

$$B) 29268.68$$

$$C) 29263.63$$



- D) 29264.68
E) None of these

788) $(124+23) + (56 \times 76) - (45 \div 2.4) = ?$

- A) 4242.61
B) 4242.62
C) 4242.63
D) 4242.64
E) None of these

789) $(7.84)^{1/2} \times (47.61)^{1/2} - 9216^{1/2} = ?$

- A) - 78.68
B) - 78.86
C) - 76.68
D) - 78.68
E) None of these

790) 46% of ? = 46916

- A) 101993.3
B) 101991.3
C) 101993.1
D) 101993.2
E) None of these

Solution (781-790):

781) B

$$\begin{aligned} (14/3) + (37/5) - (38/3) + (25/7) &= (490 + 777 - \\ 1330 + 375) / 105 \\ &= 312 / 105 = 2(102/105) \end{aligned}$$

782) D

BODMAS rule

$$0.57 \times 2126 \div 11.4 + 26\% \text{ of } 520$$

$$0.57 \times 2126 \div 11.4 + 135.2$$

$$0.57 \times 186.5 + 135.2$$

$$106.3 + 135.2 = 241.5$$

783) B

$$15.006 \times ? \times 25.985 = 56745$$

$$389.93 \times ? = 56745$$

$$? = 56745 / 389.93$$

$$? = 145.53$$

784) A

$$(50 \times 50 \times 50) / (25 \times 25) = 200$$

$$200 + 2466 = 2666$$

785) E

$$(5.6 \times 9.8 \times 6 \times 4.5) / (7.8 \times 2.88 \times 34.2 \times 20) \% \text{ of } 2345$$

$$(0.09643 / 100) \times 2345 = 2.26$$

786) C

$$13335.68 - 5644.64 = 12543 - ?$$

$$7691.04 = 12543 - ?$$

$$? = 4851.96$$

787) A

$$1055.25 + 428.4 - 94.68 \times 324.75 - ? = 0$$

$$? = 1055.25 + 428.4 - 30747.33 = 29263.68$$

788) D

$$5.39 + 4256 - 18.75$$

$$4261.39 - 18.75 = 4242.64$$

789) C

$$= 2.8 \times 6.9 - 96$$

$$= 19.32 - 96$$

$$= - 76.68$$

790) B

$$(46/100) ? = 46916$$

$$? = (46916 \times 100) / 46 = 101991.3$$

Directions (791-800): What value should come in place of the x in the following questions?



791) $645 \times (256)^{1/2} \times 85.74 = 6^3 \times 8^?$

- A)1
- B)4
- C)2
- D)3

792) $(25\% \text{ of } 890 + 45\% \text{ of } 980) \div 6 = ?$

- A)110.6
- B)110.4
- C)116.4
- D)114.6

793) $1246 + (256)^{(1/4)} = ?^2 \div 50$

- A)50
- B)25
- C)250
- D)150

794) $(28^2 \times 12 - 765) / 4 = 1160 + ?$

- A)1100.8
- B)1006.8
- C)1432.8
- D)1000.8

795) $1(1/3) + 2(1/6) - 3(1/9) = 1 \div ?$

- A)7/18
- B)18/7
- C)16/7
- D) 7/8

796) $24 \times 266 \div 19 - ? = 312 \div 12$

- A)362
- B)326
- C)310
- D)336

797) $(2.36 \times 2.36 \times 2.36 + 5.63 \times 5.63 \times 5.63) / [(2.36 \times 2.36) + (5.63 \times 5.63) + (5.63 \times 2.36)]$

- A)11

B)9

C)8

D)7

798) $0.0009 \div 0.0003 \times 49.000004 = ?$

- A) 147.000012
- B) 147.000011
- C) 147.000120
- D) 147.000102

799) $(16/100) \times 1440 + (49/100) \times 549 = 100 + ?$

- A)399.41
- B)499.41
- C)349.41
- D)494.41

800) $[(729)^{1/2} + (0.0016)^{1/2}] / 8 \text{ of } 134.567 = ?$

- A)451
- B)453
- C)455
- D)456

Solution (791-800):

791) B

$645 \times 16 \times 85.74 = 216 \times 4096 = 884736$

$8^4 = 4096$

792) A

$222.5 + 441 = 663.5$

$663.5 / 6 = 110.6$

793) C

$1246 + 4 = ?^2 / 50$

$1250 = ?^2 / 50$

$62500 = ?^2$

$?^2 = 250$

794) D



$$784 \times 12 - 765 = 9408 - 765 = 8643$$

$$8643/4 = 2160.8$$

$$2160.8 - 1160 = 1000.8$$

795) B

$$(24+39-56)/18 = 1 \div ?$$

$$7/18 = 1/?$$

$$? = 18/7$$

796) C

$$24 \times 14 - ? = 26$$

$$336 - ? = 26$$

$$? = 336 - 26 = 310$$

797) C

$$\text{Explanation : } 2.36 + 5.63 = 7.99 = 8$$

798) A

$$\text{Explanation : } 3 \times 49.000004 = 147.000012$$

799) A

$$230.4 + 269.01 = 100 + ?$$

$$499.41 = 100 + ?$$

$$? = 399.41$$

800) C

$$27 + 0.04 = 27.04/8 = 3.38$$

$$3.38 \times 134.567 = 454.8 = 455$$

Directions (801-810): What value should come in place of the x in the following questions?

$$801) 10^3 \times 100^3 \times 9999 + 1 = 10^?$$

$$A) 11$$

$$B) 13$$

$$C) 12$$

$$D) 9$$

$$802) (10004.0004)^{1/2} + 0.10 = ?$$

$$A) 110.02$$

$$B) 120.10$$

$$C) 100.12$$

$$D) 100$$

$$803) 5/7 \text{ of } 3056.66 + 7/10 \text{ of } 6479 = ?$$

$$A) 6718.62$$

$$B) 7569.87$$

$$C) 7618.09$$

$$D) 6178.54$$

$$804) 4567 \div 368 \times (650)^{1/2} = ?$$

$$A) 316.46$$

$$B) 320.67$$

$$C) 318.43$$

$$D) 314.78$$

$$805) 57\% \text{ of } 9877 + 27\% \text{ of } 8473 = ?$$

$$A) 7654.5$$

$$B) 7245.7$$

$$C) 7200.7$$

$$D) 7917.6$$

$$806) (6 \times 5)^2 \div 3 + 300 \times 10 = ?$$

$$A) 3300$$

$$B) 3100$$

$$C) 3000$$

$$D) 3030$$

$$807) 111.111 \times 200.002 \times 0.001 = ?$$

$$A) 24.4222$$

$$B) 22.2224$$

$$C) 20.2224$$

$$D) 12.6548$$

$$808) 1019 \times 5.04 + 237 - 302.11 = ?$$

$$A) 5030$$



- B)6064
C)5070
D)5078

809) $(102.09 - 56.32 + 78.76) \times 11 = 370 + ?$

- A)1000
B)100
C)1100
D)1150

810) $299 + 12 \times 13.95 + ? = 25^2$

- A)277
B)270
C)287
D)275

Solution(801-810):

801) B)13

802) C)100.12

Explanation : $100.02 + 0.10 = 100.12$

803) A)6718.62

Explanation : $2183.32 + 4535.3 = 6718.62$

804) A)316.46

Explanation : $12.41 \times 25.50 = 316.46$

805) D)7917.6

Explanation : $5629.89 + 2287.71 = 7917.6$

806) A)3300

$= 900 \div 3 + 300 \times 10$

$= 300 + 3000 = 3300$

807) B)22.2224

$111.111 \times 200.002 = 22222.42$

$22222.42 \times 0.001 = 22.2224$

808) C)5070

$5135.76 + 237 = 5372.76$

$5372.76 - 302.11 = 5070.65$

809) A)1000 $124.53 \times 11 = 1369.83 = 1370$

810) A)277

$24.92 \times 13.95 = 347.634$

$625 - 347.634 = 277.37$

Directions (811-820): What value should come in place of the x in the following questions?

811) $23\% 520 + ? \% 730 = 354$

- A)40%
B)32%
C)25%
D)37%

812) $12.002 \times 0.98 \times 8.070 = ?$

- A)95
B)86
C)123
D)102

813) $1033.88 + 30.030 + 0.998 - 20.67 = ?$

- A)1047
B)1035
C)1024
D)1044

814) $6/9 + 7/6 - 1/3 = ?$

- A)3/2
B)2/3
C)3/7
D)13/5



815) $(1444)^{1/2} + 56.007/1.225$ of 123 = ?

- A)5600
- B)6550
- C)6552
- D)5662

816) $73^{4.6} \times 5329^{9.8} / 73^{14} = 73^?$

- A)12.5
- B)8.6
- C)10.2
- D)14.6

817) $(16)^2 + (27)^2 - 24 = ?^2$

- A)961
- B)41
- C)29
- D)31

818) $3((2116)^{1/2} - 16)) + (6^2 - 3)^2 = ?$

- A)968
- B)1179
- C)867
- D)1289

819) $(550/25) \times (2232/17) \times (2074/9) = ? \times 22$

- A)30256
- B)40657
- C)34934
- D)34678

820) $399+99.99 \times 10.01 - 89.999 = ?$

- A)1350
- B)1311
- C)1420
- D)1370

Solution(811-820):

811) B)32%

$$120 + (730x/100) = 354$$

$$(730x/100) = 234$$

$$X = 32\%$$

812) A)95

$$12.002 \times 0.98 \times 8.070 = 94.9 = 95$$

Short

$$12 \times 1 \times 8 = 96 \text{..near that } 95$$

813) D)1044

$$1033.88+30.030+0.998 = 1064.9 = 1065$$

$$1065 - 20.67 = 1044.33 = 1044$$

Short

$$1034+30+1 - 21 = 1044$$

814) A)3/2

$$(12+21-6)/18 = 27/18 = 3/2$$

815) B

$$38 + 45.72(123) = 5661.56 = 5662$$

816) C)10.2

$$4.6+(9.8 \times 2)-14 = 10.2$$

817) D)31

$$256 + 729 - 24 = 961 = 31^2$$

818)B)1179

$$3(46-16) + (36-3)^3 = 90 + 33^2$$

$$90+ 1089 = 1179$$

819) A)30256

$$22 \times 248 \times 122 = 665632$$

$$665632/22 = 30256$$

820) B)1311

$$399.99 + 1000.9 - 89.999 = 1310.89 = 1311$$



Short

$$400 + 1000 - 90 = 1310$$

Directions (821-835): What should come in place the question mark (?) in the following questions?

821) $7872 + 6997 + 3420 = ?$

- (a) 18298
- (b) 18289
- (c) 18890
- (d) 18829
- (e) None of these

822) $682.69 + 832.87 = 10009 - ?$

- (a) 8494.40
- (b) 8493.44
- (c) 8694.60
- (d) 8993.44
- (e) None of these

823) $47.5 \times 97.5 \times 2 = ?$

- (a) 8125
- (b) 9125
- (c) 8215
- (d) 9215
- (e) None of these

824) $7 \frac{1}{2}$ of $220 + 308.65 + ? = 80995$

- (a) 79036.35
- (b) 7903.635
- (c) 16356.35
- (d) 89036.35
- (e) None of these

825) $\sqrt{7921} + (?)^2 = 4\% \text{ of } 1000 + 98$

- (a) 7
- (b) 49
- (c) 6

(d) 36

(e) None of these

826) $625.97 \times 7.5 + 299.87 = ? - 4632.64$

- (a) 9627.285
- (b) 9672.85
- (c) 9227.285
- (d) 9762.285
- (e) None of these

827) $7860 \div 24 \times 12 + 370 = ?$

- (a) 4200
- (b) 4300
- (c) 4600
- (d) 4400
- (e) None of these

828) $\sqrt{(?)} + 7820 = 9206 - 206 - 1100$

- (a) 9604
- (b) 8281
- (c) 6400
- (d) 8100
- (e) None of these

829) $8999 + 7999 + 6999 = ?$

- (a) 24997
- (b) 24979
- (c) 23979
- (d) 23997
- (e) None of these

830) $6840 \div 100 \div 50 = ?$

- (a) 3420
- (b) 13.68
- (c) 1.368
- (d) 342
- (e) None of these



831) $? - 9707.67 = 203.007$

- (a) 9087.007
- (b) 8010.787
- (c) 9880.007
- (d) 9910.677
- (e) None of these

832) $(45)^2 + (?)^2 = 9864 - 6720$

- (a) 32
- (b) 33
- (c) 34
- (d) 43
- (e) None of these

833) $68320 - 79999 + 100902 = ?$

- (a) 89323
- (b) 89223
- (c) 89332
- (d) 89232
- (e) None of these

834) $7982 - ? = 6792 - 2024$

- (a) 3142
- (b) 3124
- (c) 3241
- (d) 3214
- (e) None of these

835) $6\frac{1}{2} \times 7\frac{1}{2} + 6\frac{1}{2} = ?$

- (a) 45
- (b) 55
- (c) 54
- (d) 56
- (e) None of these

821) B

$7872 + 6997 + 3420 = ?$

$\Rightarrow ? = 18289$

822) Ans.(b)

$682.69 + 832.87 = 10009 - ?$

$\Rightarrow ? = 10009 - 682.69 - 832.87 = 8493.44$

823) Ans.(e)

$47.5 \times 97.5 \times 2 = ?$

$\Rightarrow ? = 9262.5$

824) Ans.(a)

Sol. $7\frac{1}{2}$ of $220 + 308.65 + ? = 80995$

$\Rightarrow 15/2 \times 220 + 308.65 + ? = 80995$

$\Rightarrow 1650 + 308.65 + ? = 80995$

$\Rightarrow ? = 80995 - 1958.65$

$= 79036.35$

825) A

Sol. $\sqrt{7921} + (?)^2 = 4\% \text{ of } 1000 + 98$

$\Rightarrow 89 + (?)^2 = \frac{4}{100} \times 1000 + 98$

$\Rightarrow (?)^2 = 40 + 98 - 89$

$\Rightarrow ? = \sqrt{49} = 7$

826) Ans.(a)

$625.97 \times 7.5 + 299.87 = ? - 4632.64$

$\Rightarrow 4694.775 + 299.87 + 4632.64 = ?$

$\Rightarrow ? = 9627.285$

827) Ans.(b)

Sol. $7860 \div 24 \times 12 + 370 = ?$

$\Rightarrow ? = 327.5 \times 12 + 370 = 4300$

828) Ans.(c)

$\sqrt{(?)} + 7820 = 9206 - 206 - 1100$

$\Rightarrow \sqrt{(?)} = 7900 - 7820$

$\Rightarrow ? = [(80)]^2 = 6400$



829) Ans.(d)

Sol. $8999 + 7999 + 6999 = ?$

$\Rightarrow ? = 23997$

830) Ans.(c)

Sol. $6840 \div 100 \div 50 = ?$

$\Rightarrow ? = 1.368$

831) Ans.(d)

Sol. $? - 9707.67 = 203.007$

$\Rightarrow ? = 203.007 + 9707.67 = 9910.677$

832) E

Sol. $(45)^2 + (?)^2 = 9864 - 6720$

$\Rightarrow (?)^2 = 3144 - 2025$

$\Rightarrow ? = \sqrt{(1119)} = 33.452$

833) Ans.(b)

Sol. $68320 - 79999 + 100902 = ?$

$\Rightarrow ? = 89223$

834) Ans.(d)

Sol. $7982 - ? = 6792 - 2024$

$\Rightarrow ? = 7982 - 6792 + 2024 = 3214$

835) E

Sol. $6\frac{1}{2} \times 7\frac{1}{2} + 6\frac{1}{2} = ?$

$\Rightarrow ? = \frac{13}{2} \times \frac{15}{2} + \frac{13}{2} = \frac{195 + 26}{2} = \frac{221}{2} = 110\frac{1}{2}$

Directions (836-840): What should come in place the question mark (?) in the following questions?

836) $72.42 + 385.66 + 4976.38 = ?$

A. 5436.46

B. 5432.46

C. 5433.46

D. 5434.46

E. None of these

837) $(9.8 * 2.3 + 4.46) \div 3 = 3?$

A. 2

B. 3

C. 4

D. 1

E. None of these

838) $(656 \div 164)^2 = \sqrt{?}$

A. 4

B. 16

C. 256

D. 400

E. None of these

839) $8934 - 3257 + 481 = ? + 2578$

A. 3250

B. 3580

C. 3560

D. 3480

E. 3520

840) $(?)^{1/4} \cdot 8 = 48/(?)^{3/4}$

A. 324

B. 364

C. 384

D. 374

E. 314

836) D

$72.42 + 385.66 + 4976.38 = 5434.46$

837) A

$9.8 * 2.3 = 22.54$

$22.54 + 4.46 = 27; 27/3 = 9$



838) C

$$656 \div 164 = 4; \sqrt{?} = 16; ? = 256$$

839) B

$$9415 - 5835 = 3580$$

840) C

$$x = 48 * 8 = 384$$

841) $69 \div 3 * 0.85 + 14.5 - 3 = ?$

- A. 36.15
- B. 32.15
- C. 33.05
- D. 32.05
- E. None of these

842) $4.5 + 23.50 + 14.58 - 17.68 * 0.5 = ?$

- A. 23.74
- B. 33.74
- C. 34.74
- D. 36.74
- E. None of these

843) $23.56 + 4142.25 + 134.44 = ?$

- A. 4010.05
- B. 4000.15
- C. 4100.25
- D. 4300.25
- E. None of these

844) $(\sqrt{7744} * 66) \div (203 + 149) = ?$

- A. 12.5
- B. 14.5
- C. 13.5
- D. 18.5
- E. 16.5

845) $5/9$ of 504 + $3/8$ of 640 = ?

- A. 620
- B. 550
- C. 520
- D. 480
- E. 460

846) $(786 * 74) \div x = 1211.75$

- A. 62
- B. 55
- C. 52
- D. 48
- E. 46

847) $18^2 + \sqrt{?} = 350$

- A. 676
- B. 576
- C. 26
- D. 28
- E. None of these

848) 140% of 500 + 24% of 750 = ?

- A. 550
- B. 660
- C. 770
- D. 880
- E. None of these

849) $4900 \div 28 * 444 \div 12 = ?$

- A. 6312
- B. 6223
- C. 6475
- D. 6217
- E. 6421

850) $1221 + 1117 = x\%$ of 6680

- A. 26
- B. 32



C. 43
D. 17
E. 35

841) E

$$69 \div 3 \times 0.85 = 23 \times 0.85 = 19.55$$

$$19.55 + 14.5 - 3 = 31.05$$

842) B

$$17.68 \times 0.5 = 8.84$$

$$42.58 - 8.84 = 33.74$$

843) D

$$23.56 + 4142.25 + 134.44 = 4300.25$$

844) E

$$(\sqrt{7744 \times 66}) = 5808; 5808/352 = 16.5$$

845) C

$$5/9 \text{ of } 504 = 280; 3/8 \text{ of } 640 = 240 \Rightarrow 280 + 240 = 520$$

846) D

$$(786 \times 74) \div x = 1211.75$$

$$x = 48$$

847) A

$$18^2 + \sqrt{?} = 350$$

$$\sqrt{?} = 350 - 324 = 26$$

$$? = 676$$

848) D

$$700 + 180 = 880$$

849) C

$$4900 \div 28 = 175$$

$$444 \div 12 = 37$$

$$175 \times 37 = 6475$$

850) E

$$2338/66.8 = 35$$

851) $\sqrt{3840.56 \times [(501.01)^2 / 250]} \times 0.987 = ? \times 1000$

A.56

B.76

C.43

D.51

E.62

852) $1/[2 + (1/(4 + (1/(5 - 1/3)))))] = ?$

A.131/57

B.47/121

C.117/39

D.59/132

E.110/59

853) $11111.10 + 989.88 \times 88.88 + 0.798 = ?$

A.1010

B.1000

C.1100

D.1001

E.1011

854) $\sqrt[3]{0.000001728} = ?$

A.0.012

B.0.12

C.0.014

D.0.0012

E.0.016

855) $1(2/3) + 2(4/9) - 3(7/15) = ?$

A.0.64

B.0.55

C.0.72

D.0.58

E.0.46



856) $\sqrt{3/7} \times 1124 - ? = 21$

- A.15
- B.3
- C.9
- D.7
- E.11

857) If $a - b = 7$ and $a^2 + b^2 = 53$, find the value of ab .

- A.5
- B.3
- C.0.5
- D.1
- E.2

858) $45\% \text{ of } 870 + 67\% \text{ of } 1250 - 21\% \text{ of } 540 = ?$

- A.1087
- B.1115
- C.1439
- D.1560
- E.1239

859) $17 \times 756 \div \sqrt{2916} = ? + 540$

- A.312
- B.-223
- C.-302
- D.-217
- E.-421

860) $\sqrt{[16 + (1/21)]} \div \sqrt{[16 + (21/84)]} \times 702/27 = ?$

- A.26
- B.32
- C.43
- D.17
- E.31

851) E

$$62 \times 1000 \times 1 = 62000$$

$$? = 62$$

852) D

$$\begin{aligned} 1/[2 + (1/(4 + (1/(5 - 1/3)))))] &= 1/[2 + (1/(4 + (3/14)))] = \\ 1/[2 + (14/59)] &= 1/[118 + 14/59] = 1/(132/59) \\ &= 59/132 \end{aligned}$$

853) C

$$10000 \div 1000 = 10$$

$$88 \div 0.8 = 110$$

$$10 \times 110 = 1100$$

854) A

$$0.012 \times 0.012 \times 0.012 = 0.000001728$$

855) A

$$5/3 + 22/9 - 52/15 = 75 + 110 - 156/45 = 29/45$$

856) C

$$0.4 \times 1124 = 449.6 = 450$$

$$450 - 9 = 441$$

$$441 = 21 \times 21$$

857) E

$$2ab = (a^2 + b^2) - (a - b)^2$$

$$2ab = 53 - 49 = 4$$

$$ab = 4/2 = 2$$

858) B

$$391 + 837 - 113 = 1115$$

859) C

$$17 \times 756 \div 54 = ? + 540$$

$$17 \times 14 = ? + 540$$

$$238 = ? + 540$$

$$? = 238 - 540 = -302$$



860) A

$$= \sqrt{(337/21)} \div \sqrt{(1365/84)} \times 26$$

$$= 16 \div 16 \times 26 = 26$$

861) 45% of 300 + $\sqrt{?}$ = 56% of 750 – 10% of 350

- A. 260
- B. 62500
- C. 230
- D. 52900
- E. None of these

$$862) [(?)^{11/7}/50] = [20/(?)^{10/7}]$$

- A. 3
- B. 5
- C. 10
- D. 20
- E. None of these

$$863) 79296 \div \sqrt{x} = 112 \times 12$$

- A. 3481
- B. 3561
- C. 3721
- D. 3969
- E. None of these

$$864) 1637 + 1832 = (45)^2 + (?)^2$$

- A. 32
- B. 38
- C. 42
- D. 48
- E. None of these

$$865) 13498 + 8932 - 1159 = ? \times 89$$

- A. 289
- B. 271
- C. 239
- D. 261
- E. None of these

$$866) (37685 + 29452 - 41897) \div 250 = ?$$

- A. 102.56
- B. 118.96
- C. 100.96
- D. 112.76
- E. None of these

$$867) 75 / ? = ? / 147$$

- A. 175
- B. 125
- C. 115
- D. 135
- E. None of these

$$868) (32.4 \times 8 \times 5 + 4) \div 26 + 14 = (?)^2$$

- A. 8
- B. 2
- C. 18
- D. 12
- E. None of these

$$869) \sqrt{(12 \times 145 \div 6 + 34)} = ?$$

- A. 18
- B. 28
- C. 63
- D. 73
- E. None of these

$$870) 5670 \div (28 \times 13.5) = ?$$

- A. 25
- B. 35
- C. 15
- D. 45
- E. None of these

861) B



$$45\% \text{ of } 300 + \sqrt{x} = 56\% \text{ of } 750 - 10\% \text{ of } 350$$

$$135 + \sqrt{x} = 420 - 35 \Rightarrow \sqrt{x} = 250$$

$$x = 62500$$

862) C

$$[(?)^{11/7}/50] = [20/(?)^{10/7}] x^3 = 1000$$

$$x = 10$$

863) A

$$\sqrt{x} = 79296 / 112 \times 12$$

$$\sqrt{x} = 59$$

$$x = 3481$$

864) B

$$1637 + 1832 = (45)^2 + (?)^2$$

$$(?)^2 = 3469 - 2025 = 1444 \Rightarrow x = 38$$

865) C

$$13498 + 8932 - 1159 = ? \times 89$$

$$x \times 89 = 21271 \Rightarrow x = 239$$

866) C

$$(37685 + 29452 - 41897) \div 250$$

$$= 25240 \div 250 = 100.96$$

867) E

$$x^2 = 75 \times 147 \Rightarrow x = 105$$

868) A

$$32.4 \times 8 \times 5 + 4 = 1300$$

$$1300 \div 26 + 14 = 64 \Rightarrow x = 8$$

869) A

$$\sqrt{(12 \times 145 \div 6 + 34)}$$

$$= \sqrt{(290 + 34)}$$

$$= 18$$

870) C

$$5670 \div (28 \times 13.5)$$

$$= 5670 \div 378 = 15$$

$$871) 572 \div 26 \times 12 - 232 = 2^?$$

A. 5

B. 3

C. 6

D. 7

E. None of these

$$872) 44000 \div 2000 \times 400 \div 20 = ?$$

A. 340

B. 440

C. 880

D. 580

E. None of these

$$873) [(5\sqrt{6} + \sqrt{6}) \times (16\sqrt{6} + 9\sqrt{6})] - 96 = ?$$

A. 704

B. 804

C. 606

D. 806

E. None of these

$$874) (23.1)^2 + (48.6)^2 - (39.8)^2 = 163.84 + ?$$

A. 1147.69

B. 1175.84

C. 1135.84

D. 1163.84

E. None of these

$$875) 3263 \times 246 - 18611 = ? + 5883$$

A. 897071

B. 778204

C. 989090

D. 797090

E. None of these



876) $\sqrt{7396} \times \sqrt{1296} \div \sqrt{676} = ?$

- A. 130
- B. 119
- C. 160
- D. 170
- E. None of these

877) $7000 \div 70 \times 95 = ? \times 20$

- A. 475
- B. 380
- C. 640
- D. 720
- E. None of these

878) $90\% \text{ of } 700 + 50\% \text{ of } 1000 - 170 = ?$

- A. 950
- B. 930
- C. 960
- D. 970
- E. None of these

879) $\sqrt{(7^2 \times 24 \times 2 - (11)^3 + 68)} = ?$

- A. 53
- B. 33
- C. 63
- D. 73
- E. None of these

880) $35\% \text{ of } \sqrt{3136} \times 5 = ? + 54$

- A. 46
- B. 48
- C. 44
- D. 42
- E. None of these

871) A

$572 \div 26 = 22$

$22 \times 12 = 264$

$264 - 232 = 32 = 2^5$

872) B

$(44000 \div 2000) \times 400 \div 20 = 440$

873) B

$[(5\sqrt{6} + \sqrt{6}) \times (16\sqrt{6} + 9\sqrt{6})] - 96$

$[\sqrt{6}(5 + 1) \times \sqrt{6}(16 + 9)] - 96$

$900 - 96 = 804$

874) A

$533.61 + 2361.96 - 1584.04 = 163.84 + ?$

$1311.53 - 163.84 = 1147.69$

875) B

$3263 \times 246 = 802698$

$802698 - (18611 + 5883) = 778204$

876) B

$\sqrt{7378} = 86; \sqrt{1296} = 36; \sqrt{676} = 26$

$86 \times 36 \div 26 = 119$

877) A

$7000 \div 70 \times 95 = ? \times 20 = 475$

878) C

$= (700 \times (90/100) + 1000 \times (50/100)) - 170$

$= 630 + 500 - 170 = 960$

879) B

$\sqrt{(2352 - 1331 + 68)} = \sqrt{1089} = 33$

880) C

$(65/100) \times 56 \times 5 = ? + 54$

$98 - 54 = 44$



What should come in place of question mark (?) in the following questions: –

881) $(0.04)^2 \div (0.008) * (0.2)^6 = (0.2)^?$

- A. 7
- B. 6
- C. 5
- D. 4
- E. 3

882) $13.141 + 31.417 - 27.118 + 15.247 - 14.214 = ?$

- A. 18.465
- B. 18.473
- C. 18.688
- D. 18.645
- E. 18.697

883) $36 * 14 - 49 * 784 \div 112$

- A. 151
- B. 171
- C. 141
- D. 161
- E. 131

884) $\sqrt{676} * 12 - 864 \div 36 = ? + 61$

- A. 234
- B. 227
- C. 232
- D. 244
- E. 256

885) $468 \div 39 * 15 + 166 = (?)^3 + 130$

- A. 5
- B. 6
- C. 4
- D. 7
- E. 2

886) $185\% \text{ of } 600 + 25\% \text{ of } 240 = ?\% \text{ of } 1000$

- A. 136
- B. 128
- C. 117
- D. 121
- E. None of these

887) $2/3 \text{ of } 7/5 \text{ of } 75\% \text{ of } 640 = ?$

- A. 396
- B. 448
- C. 454
- D. 382
- E. 424

888) $15.4 * 14.5 * x = 2798.75$

- A. 15.2
- B. 15.3
- C. 12.9
- D. 12.5
- E. 19.2

889) $7344 + (5.4)^2 + \sqrt{?} = 7437.16$

- A. 4156
- B. 4401
- C. 4096
- D. 4553
- E. 4335

890) $567 \div (10.8 * 2.5) \div 3 = ?$

- A. 6
- B. 7
- C. 8
- D. 4
- E. 5

881) A

$(0.04)^2 \div (0.008) * (0.2)^6 = (0.2)^?$
 $= 0.2^1 * 0.2^6 = (0.2)^7$



882) B

$$13.141 + 31.417 - 27.118 + 15.247 - 14.214 = ?$$

$$59.805 - 41.332 = 18.473$$

883) D

$$36 \times 14 - 49 \times 784 \div 112$$

$$504 - 343 = 161$$

884) B

$$\sqrt{676} \times 12 - 864 \div 36 = ? + 61$$

$$x = 227$$

885) B

$$12 \times 15 + 166 = (?)^3 + 130$$

$$(?)^3 = 216$$

886) C

$$185\% \text{ of } 600 + 25\% \text{ of } 240 = ?\% \text{ of } 1000$$

$$1110 + 60 = x\% \text{ of } 1000$$

887) B

$$\frac{2}{3} \text{ of } \frac{7}{5} \text{ of } 75\% \text{ of } 640 = \frac{2}{3} \times \frac{7}{5} \times \frac{75}{100} \times 640 =$$

$$64 \times 7 = 448$$

888) D

$$15.4 \times 14.5 \times x = 2798.75$$

$$x = 2798.75 / 223.3 = 12.5$$

889) C

$$7344 + (5.4)^2 + \sqrt{?} = 7437.16$$

$$\sqrt{?} = 7408 - 7344 = 64 \Rightarrow ? = 4096$$

890) B

$$567 \div (10.8 \times 2.5) \div 3 = ?$$

$$= 567 \div (27) \div 3 = 7$$

What should come in place of question mark (?) in the following questions: –

891) $28.217 - 14.241 + 6.873 - 2.434 = ?$

A. 18.167

B. 16.145

C. 10.645

D. 18.415

E. 15.546

892) $712 + 92 \times 0.50 - 83 = ?$

A. 646

B. 675

C. 688

D. 645

E. 697

893) $12\% \text{ of } 450 + x\% \text{ of } 200 = 88$

A. 15

B. 17

C. 14

D. 18

E. 24

894) $726.34 + 888.12 - ? = 1001.88$

A. 634.58

B. 621.58

C. 602.56

D. 654.54

E. 612.58

895) $36.15 + 71.58 + 6.33 + 2.71 = ?$

A. 124.54

B. 146.42

C. 108.64

D. 116.77

E. 115.24



896) $572 \div 26 \times 12 - 200 = ?$

- A. 36
- B. 28
- C. 64
- D. 12
- E. None of these

897) $5466.97 - 3245.01 + 1122.99 = ? + 2309.99$

- A. 1039.46
- B. 1034.96
- C. 1032.54
- D. 1038.25
- E. 1022.55

898) $15.4 \times 13.5 \times x = 2598.75$

- A. 15.2
- B. 15.3
- C. 12.9
- D. 12.5
- E. 19.2

899) $7359 + (5.4)^2 + \sqrt{?} = 7437.16$

- A. 2350
- B. 2401
- C. 2530
- D. 2553
- E. 2535

900) $6561 \div (10.8 \times 2.5) \div 3 = ?$

- A. 61
- B. 71
- C. 81
- D. 45
- E. 58

891) D

$$= 28.217 - 14.241 + 6.873 - 2.434$$
$$= 35.090 - 16.675 = 18.415$$

892) B

$$92 \times 0.50 = 46$$
$$712 + 46 - 83 = 675$$

893) B

$$12\% \text{ of } 450 + x\% \text{ of } 200 = 88$$
$$54 + 2x = 88$$
$$2x = 34$$
$$x = 17$$

894) E

$$726.34 + 888.12 - ? = 1001.88$$
$$x = 612.58$$

895) D

$$= 36.15 + 71.58 + 6.33 + 2.71 = 116.77$$

896) C

$$572 \div 26 = 22$$
$$22 \times 12 = 264 \Rightarrow 264 - 200 = 64$$

897) B

$$5466.97 - 3245.01 + 1122.99 - 2309.99 = 1034.96$$

898) D

$$15.4 \times 13.5 \times x = 2598.75$$
$$x = 2598.75 / 207.9 = 12.5$$

899) B

$$7359 + (5.4)^2 + \sqrt{?} = 7437.16$$
$$\sqrt{?} = 7408 - 7359 = 49 \Rightarrow ? = 2401$$

900) C

$$6561 \div (10.8 \times 2.5) \div 3 = ?$$
$$= 6561 \div (27) \div 3 = 81$$



What should come in place of question mark (?) in the following questions: –

901) $(78125)^{1.3} \times (15625)^{1.25} \div (125)^2 = 5^?$

- A.8.6
- B.6.5
- C.10.6
- D.12
- E.15

902) $77.55 \div 0.03 + 70.2 \div 0.9 - 506.25 \div 0.75 = ?$

- A.1966
- B.1950
- C.1988
- D.1945
- E.1997

903) $(1276/44) \div (23/805) * (1275/510) = ?$

- A.2500
- B.2835.7
- C.2537.5
- D.2800
- E.2450

904) $\sqrt{7580} * \sqrt{1325} \div \sqrt{665} - \sqrt{6395} = ?$

- A.34
- B.41
- C.53
- D.60
- E.67

905) $79.008\% \text{ of } 799.998 + 42.99\% \text{ of } 499.999 - 53.93\% \text{ of } 699.92 = ?$

- A.459
- B.445
- C.456
- D.496
- E.469

906) $\sqrt{7876} \times \sqrt{1532} \div \sqrt{889} = ?$

- A.136
- B.128
- C.116
- D.112
- E.105

907) $429.989 \div 19.998 + 37.997 - 49.8023 = ?$

- A.9.5
- B.12.75
- C.15.5
- D.18.25
- E.22.55

908) $21333.759 + 129.097 * 229.679 - 49928.915 = ?$

- A.1529
- B.1530
- C.1295
- D.1305
- E.1925

909) $19789.856 + 296.756 - 97.89 - X = 4965 \div 824 * 2939.572$

- A.2350
- B.2400
- C.2530
- D.2553
- E.2535

910) $(63.83)^2 + (56.96)^2 - (77.81)^2 = ?$

- A.1150
- B.1260
- C.1340
- D.1450
- E.1580



901) C

$$5^{7 \times 1.3} \times 5^{6 \times 1.25} \div 5^{3 \times 2} = 5^?$$

$$5^{9.1 + 7.5 - 6} = 5^{10.6}$$

902) C

$$7755/3 = 2585$$

$$702/9 = 78$$

$$506.25/0.75 = 675$$

$$2585 + 78 - 675 = 1988$$

903) C

$$29 \times 35 \times 2.5 = 2537.5$$

904) B

$$\sqrt{7580} = 87 ; \sqrt{1325} = 36 ; \sqrt{665} = 26 ; \sqrt{6395} = 80$$

$$87 \times 1.4 = 121.8 - 80 = 41.8$$

905) E

$$79 \times 800/100 + 43 \times 500 / 100 - 54 \times 700/100$$

$$632 + 215 - 378 = 469$$

906) C

$$\sqrt{7876} \approx 89 ; \sqrt{1532} \approx 39 ; \sqrt{889} \approx 30$$

$$89 \times 39 \div 30$$

907) A

$$430/20 + 38 - 50 = 9.5$$

908) D

$$21334 + 130 \times 230 - 49929$$

$$21334 + 29900 - 49929 = 1305$$

909) A

$$19790 + 297 - 98 - X = 6 \times 2940$$

$$X = 2349$$

910) B

$$(63.83)^2 = 4096$$

$$(56.96)^2 = 3249 ; (77.81)^2 = 6084 ;$$

$$4096 + 3249 - 6084 = 1261$$

Directions(911-920): What approximate value will come in the place of the question mark(?) in the following questions?(You are not expected to calculate the exact value.)

911) $1524.79 \times 19.92 + 495.26 = ?$

A. 31000

B. 32000

C. 33000

D. 34000

E. 36000

912) $1548.45 + 3065.15 + 15.058 = ?$

A. 1650

B. 1750

C. 1850

D. 1950

E. 1550

913) $25 \times 3.25 + 50.4 \div 24 = ?$

A. 77

B. 66

C. 55

D. 44

E. 60

914) $(833.25 - 384.45) \div 24 = ?$

A. 15.8

B. 16.5

C. 18.7

D. 17.9

E. 17.5

915) $5907 - 1296 \div 144 = ? \times 8$

A. 700.25



B. 658.25

C. 628.25

D. 737.25

E. 630.5

916) $3237 \div 31 * 15 = ? * 17$

A. 120

B. 70

C. 90

D. 80

E. 60

917) $\sqrt{7378} * \sqrt{1330} \div \sqrt{660} = ?$

A. 150

B. 160

C. 120

D. 170

E. 140

918) $(32.13)^2 + (23.96)^2 - (17.11)^2 = ?$

A. 1410

B. 1310

C. 1550

D. 1650

E. 1810

919) $67\% \text{ of } 801 - 231.17 = ? - 23\% \text{ of } 789$

A. 400

B. 490

C. 550

D. 600

E. 750

920) $(989/34) \div (65/869) * (515/207) = ?$

A. 845

B. 870

C. 945

D. 745

E. 890

911) A

$$1525 * 20 + 495 = 30995$$

912) B

$$3065 \div 15 = 204 + 1548 = 1752$$

913) A

$$25 * 3 = 75; 75 + 2 = 77$$

914) C

$$(833.25 - 384.45) = 448.48$$

$$448.48 \div 24 = 18.68$$

915) D

$$1296 / 144 = 9$$

$$5907 - 9 / 8 = 737.25$$

916) C

$$3237 \div 31 = 104$$

$$104 * 15 / 17 = 91$$

917) C

$$\sqrt{7378} = 86 ; \sqrt{1330} = 36; \sqrt{660} = 26 \quad 86 * 1.4 = 120.4$$

918) B

$$(32.13)^2 = 1024$$

$$(23.96)^2 = 576; (17.11)^2 = 289; 576 - 289 = 287;$$

$$1024 + 287 = 1311$$

919) B

$$67 * 8 = 536; 536 - 231 + 181 = 486$$

920) C

$$29 * 13 * 2.5 = 945$$



921) $(4438 - 2874 - 559) + (269 - 106 - 83) = ?$

- A. 14.5
- B. 12.5
- C. 20.5
- D. 27.5
- E. None of these

922) $(78.95)^2 - (43.35)^2 = ?$

- A. 4353.88
- B. 4153.88
- C. 4253.78
- D. 4053.78
- E. None of these

923) $434.43 + 43.34 + 3.44 + 4 + 0.33 = ?$

- A. 455.54
- B. 485.54
- C. 475.54
- D. 465.54
- E. None of these

924) $(755\% \text{ of } 523) \div 777 = ?$

- A. 5
- B. 6
- C. 8
- D. 7
- E. None of these

925) $156 + 16 * 1.5 - 21 = ?$

- A. 126
- B. 149
- C. 141
- D. 159
- E. None of these

926) $783.559 + 49.0937 * 31.679 - 58.591 = ?$

- A. 1280
- B. 3280

C. 2280

- D. 1880
- E. None of the above

927) $(\sqrt{7921} - \sqrt{2070.25}) * (1/4) = ?$

- A. 15
- B. 16
- C. 17
- D. 19
- E. 11

928) $(12.25)^2 - \sqrt{625} = ?$

- A. 145.1625
- B. 125.0625
- C. 155.1625
- D. 165.0625
- E. None of these

929) $8451 + 793 + 620 - ? = 6065 + 713$

- A. 3486
- B. 3586
- C. 3286
- D. 3186
- E. None of these

930) $22240 \div \sqrt{?} = 34 * 12$

- A. 3065
- B. 3085
- C. 3025
- D. 3075
- E. None of these

921) B

$4438 - 2874 - 559 = 1005$; $269 - 106 - 83 = 80$;
 $1005 \div 80 = 12.5$

922) A

$(78.95)^2 - (43.35)^2 = 6233.1025 - 1879.2225 =$
 4353.88



923) B

$$434.43 + 43.34 + 3.44 + 4 + 0.33 = 485.54$$

924) A

$$(755/100 * 523) = 3948.65$$

$$3948.65 \div 777 = 5$$

925) D

$$16 * 1.5 = 24$$

$$156 + 24 - 21 = 159$$

926) C

$$49.0937 * 31.679 = 1555$$

$$783 + 1555 - 58 = 2280(\text{approx})$$

927) E

$$\sqrt{7921} = 89 ; \sqrt{2070.25} = 45.5 = 43.5/4 = 10.8 \approx 11$$

928) B

$$(12.25)^2 = 150.0625$$

$$150.0625 - 25 = 125.0625$$

929) E

$$8451 + 793 + 620 = 9864 ; 6065 + 713 = 6778 \Rightarrow$$

$$9864 - 6778 = 3086$$

930) C

$$34 * 12 = 408$$

$$\sqrt{?} = 22240/408 = 54.5 = 55 \Rightarrow x = 3025$$

$$931) (29.8\% \text{ of } 260) + (60.01\% \text{ of } 510) - 103.57 = ?$$

A. 450

B. 320

C. 210

D. 280

E. None of these

$$932) (21.98)^2 - (25.02)^2 + (13.03)^2 = ?$$

A. 85

B. 25

C. 75

D. 65

E. None of these

$$933) (0.064)^*(0.4)^7 = (0.4)^? * (0.0256)^2$$

A. 7

B. 2

C. 8

D. 3

E. None of these

$$934) 572 \div 26 * 12 - 200 = (2)^?$$

A. 5

B. 6

C. 8

D. 7

E. None of these

$$935) 350\% \text{ of } ? + 50 + 248 = 591$$

A. 4700

B. 4900

C. 4100

D. 4600

E. None of these

$$936) 534.596 + 61.472 - 496.708 = ? + 27.271$$

A. 126.631

B. 62.069

C. 72.089

D. 132.788

E. None of the above

$$937) (\sqrt{5} - 2)^2 = ? - \sqrt{80}$$

A. 5

B. 6



- C. 7
D. 1
E. 9

938) $(\sqrt{3} - 2)^2 = ? - \sqrt{12} - \sqrt{36}$

- A. $13 - 2\sqrt{3}$
B. $13 - 4\sqrt{3}$
C. $13 - 6\sqrt{3}$
D. $13 - 9\sqrt{3}$
E. None of these

939) $(9 \div 2 * 27 \div 9) / (18 \div 7.5 * 5 \div 4)$

- A. 3.5
B. 2.5
C. 5.5
D. 4.5
E. None of these

940) $64^{12} \div 4^{15} = 64^?$

- A. 6
B. 8
C. 7
D. 5
E. None of these

931) D

$30\% \text{ of } 260 + 60\% \text{ of } 510 - 103 = 281 \approx 280$

932) B

$(21.98)^2 - (25.02)^2 + (13.03)^2 = 484 - 625 + 169 = 28$

933) B

$(0.4)^? = (0.064) * (0.4)^7 / (0.0256)^2 = (0.4)^2$

934) B

$572 \div 26 * 12 - 200$
 $= 22 * 12 - 200 = 264 - 200 = 64 = (2)^6$

935) B

$350\% \text{ of } ? \div 50 + 248 = 591$

$x = (343 * 100 * 50) / 350 = 4900$

936) C

$= 534.596 + 61.472 - 496.708 - 27.271$
 $= 596.068 - 523.979 = 72.089$

937) E

$= 5 + 4 - 4\sqrt{5} + 4\sqrt{5} = 9$

938) A

$(\sqrt{3} - 2)^2 = ? - \sqrt{12} - \sqrt{36}$

$3 + 4 - 4\sqrt{3} = x - 2\sqrt{3} - 6$

$13 - 2\sqrt{3} = x$

939) D

$(9 \div 2 * 27 \div 9) / (18 \div 7.5 * 5 \div 4) = 27/6 = 4.5$

940) C

$64^{12} \div 4^{15} = 64^?$

$64^{12-5} = 64^7$

941) $(23.6\% \text{ of } 1254) - (16.6\% \text{ of } 834) = ?$

- A. 159.5
B. 153.5
C. 156.5
D. 157.5
E. None of these

942) $434.43 + 43.34 + 3.44 + 4 + 0.33 + 0.1 = ?$

- A. 485.54
B. 485.64
C. 484.54
D. 484.64
E. None of these

943) $4895 + 364 * 0.75 - 49 = ?$

- A. 5221
B. 5219



- C. 5119
D. 5115
E. None of these

944) $811.81 + 88.11 + 0.88 + 1.88 + 8 = ?$

- A. 935.10
B. 910.68
C. 910.84
D. 920.84
E. None of these

945) $(7171 + 3854 + 1195) \div (892 + 214 + 543) = ?$

- A. 7
B. 9
C. 11
D. 17
E. None of these

946) $1164 * 128 \div 8.008 + 969.007 = ?$

- A. 13684
B. 12694
C. 19594
D. 17694
E. None of these

947) $69.008\% \text{ of } 699.998 + 32.99\% \text{ of } 399.999 = ?$

- A. 615
B. 645
C. 675
D. 715
E. 725

948) $4374562 * 64 = ? * 7777$

- A. 36040
B. 36560
C. 36000
D. 39700
E. None of these

949) $(?)^2 + (123)^2 = (246)^2 - (99)^2 - 2462$

- A. 184
B. 186
C. 182
D. 172
E. None of these

950) $(36.14)^2 - (21.28)^2 = ?$

- A. 856
B. 828
C. 835
D. 853
E. None of these

941) D

$(23.6\% \text{ of } 1254) - (16.6\% \text{ of } 834)$
 $= 295.944 - 138.444 = 157.5$

942) B

$434.43 + 43.34 + 3.44 + 4 + 0.33 + 0.1 = 485.64$

943) C

$364 * 0.75 = 273$

$4895 + 273 - 49 = 5119$

944) B

$811.81 + 88.11 + 0.88 + 1.88 + 8 = 910.68$

945) A

$(7171 + 3854 + 1195) \div (892 + 214 + 543)$
 $= 12220 / 1649 \approx 7$

946) C

$1164 * 128 \div 8.008 + 969.007 = 1164 * 16 + 970 =$
 19594

947) A



$$(69 * 700 + 33 * 400) / 100 = 61500 / 100 = 615$$

948) C

$$= 4374562 * 64 / 7777 = 36000$$

949) C

$$(?)^2 + (123)^2 = (246)^2 - (99)^2 - 246$$

$$60516 - 27392 = 33124 = (182)^2$$

950) D

$$(36.14)^2 - (21.28)^2 = (a + b)(a - b) = 57.42 * 14.86 = 853.2612$$

$$951) (67.78)^2 + (47.42)^2 - (123.98 - 89.09)^2 + \sqrt{289.05} = ?^2$$

A.85

B.75

C.55

D.65

E.None of these

$$952) 2015.98 + 1275.087 - 175.98 * 0.95 + 988.09 = ?$$

A.4765

B.2653

C.3984

D.4004

E.None of these

$$953) 4/9 \times 6/3 + 11/27 - 18/81 = ?$$

A.27/23

B.13/7

C.29/27

D.17/21)

E.None of these

$$954) 760.8 + 654.90 - 5333.33 * 0.1 + ? = 10^3$$

A.117

B.234

C.323

D.479

E.None of these

$$955) 2/5 \text{ of } 3/7 \text{ of } 20/11 \text{ of } ? = 64 * 3$$

A.511

B.616

C.409

D.723

E.None of these

$$956) \sqrt{(59 * 98) + 587.10 - 0.005 * 0.2} = ?$$

A.764

B.510

C.478

D.662

E.None of these

$$957) [(\sqrt{7396} + \sqrt{2401}) + ?] = 100$$

A.7

B.10

C.12

D.14

E.None of these

$$958) \sqrt{440.5} \div \sqrt{0.26} \times \sqrt{290.08} + \sqrt{1024} = ?$$

A.746

B.594

C.813

D.632

E.None of these

$$959) 41\% \text{ of } 801 - 150.17 = ? - 57\% \text{ of } 910$$

A.697

B.423

C.540

D.328

E.None of these



960) $(39.23)^2 + (5.86)^2 - (20.02)^2 = ?$

- A.3235
- B.2750
- C.1157
- D.2176
- E.None of these

951) B.

$$= 68^2 + 47^2 - 35^2 + 17$$

$$= 4624 + 2209 - 1225 + 17$$

$$= 5625$$

$$?^2 = 75 \times 75$$

952) D

$$= 2016 + 1275 - 275.98 \times 1 + 988$$

$$= 2016 + 1275 - 275 + 988$$

$$= 4004$$

953) C

$$= \frac{4}{9} \times \frac{6}{3} + \frac{11}{27} - \frac{18}{81}$$

$$= \frac{4}{9} \times \frac{6}{3} + \frac{11}{27} - \frac{6}{27}$$

$$= 24 + 11 - \frac{6}{27} = \frac{29}{27}$$

954) A

$$761 + 655 - 533 + x = 1000$$

$$X = 1000 - 883 = 117$$

955) B

$$\frac{2}{5} \times \frac{3}{7} \times \frac{20}{11} \times x = 192$$

$$X = 192 \times 11 \times \frac{7}{5} \times \frac{3}{20} = 616$$

956) D

$$= \sqrt{(59 \times 98)} + 587.10 - 0.005 \times 200$$

$$= 76 + 587 - 1 = 662$$

957) C

$$86 + 7 = 93$$

$$100 - 93 = 7$$

958) A

$$= 21 \div 0.5 \times 17 + 32$$

$$= 42 \times 17 + 32$$

$$= 714 + 32 = 746$$

959) A

$$328 - 150 = 178$$

$$X - 519 = 178$$

$$X = 697$$

960) C

$$39^2 + 6^2 - 20^2 = 1521 + 36 - 400 = 1157$$

961) 24.95% of $797.07 \div 19.05 = 54.88 - ?$

- A.63
- B.45
- C.36
- D.47
- E.None of these

962) $45.05^2 - 19.28^2 + \sqrt{289} = ?^2$

- A.39
- B.71
- C.56
- D.41
- E.None of these

963) $1781.90 + 54.20 + 456.13 - 2345.80 \times 0.98 = ? \times 2$

- A.- 928
- B.988
- C.-876
- D.-675
- E.None of these

964) $[\sqrt{(\sqrt{65536}) + 144}] = ?^2$

- A.36



- B.17
C.20
D.41
E.None of these

965) $(575+7511-467+543)+(76*0.5+675-342) = \sqrt{?}$

- A.456
B.484
C.529
D.625
E.None of these

966) $(5616 \div 156) \times 23.67 = ? \div 16.78$

- A.12388
B.14336
C.18644
D.14688
E.None of these

967) $(50625)^{2/4} \div (3375)^{2/3} = 15^?$

- A.1
B.0
C.2
D.3
E.None of these

968) $5/19 \times 1368 + 3/42 \times 1512 = ?$

- A.541
B.486
C.468
D.378
E.None of these

969) $4993.67 \div 24.76 - 432.05 + 200.24 = ?$

- A.- 32
B.78
C.-98

- D.-27
E.None of these

970) $(2344.65+4.5-359)/? = 308/28$

- A.42
B.34
C.25
D.10
E.None of these

961) B.45

$25\% \text{ of } 800 \div 20 = 25*800/100*20$
 $= 10$

$55-45 = 10$

962) D

$45^2-19^2 = 2025 - 361 = 1664$

$1664+17 = 1681=41*41$

963) A

$1782 \div 54 + 456 - 2345 * 1$

$= 33 + 456 - 2345$

$= -1856/2 = -928$

964) C

$\sqrt{65536} = 256$

$\sqrt{256+144} = \sqrt{400} = 20$

965) B

$8161 \div (38+675-342) = 8162 \div 371 = 22$

$\sqrt{?} = 22*22 = 484$

966) D

$36*24 = 864$

$864*17 = 14688$

967) B

$15^4 = 50625 = (15^4)^{2/4} = 15^2$

$15^3 = 3375$



$$(15^3)^{2/3} = 15^2$$

$$15^2 \div 15^2 = 1$$

968) C

$$5 \times 72 + 3 \times 36 = 360 + 108 = 468$$

969) A

$$5000 \div 25 = 200$$

$$200 + 200 - 432 = 400 - 432 = -32$$

970) D

$$2345 \div 5 = 469 - 359 = 110$$

$$308/28 = 11$$

$$110/11 = 10$$

$$971) 120.009 + 59.999 - 104.679 = ?$$

$$A. 85.349$$

$$B. 75.329$$

$$C. 54.324$$

$$D. 67.896$$

$$E. \text{None of these}$$

$$972) 2\sqrt{2} \times 3\sqrt{3} \times 5\sqrt{2} \times 9\sqrt{3} = ?$$

$$A. 1874$$

$$B. 1340$$

$$C. 1620$$

$$D. 2140$$

$$E. \text{None of these}$$

$$973) (19 \times 75.4 + 0.2) \div 13 + 67 = ?$$

$$A. 1056$$

$$B. 981$$

$$C. 564$$

$$D. 618$$

$$E. \text{None of these}$$

ws

$$974) 4(1/2) + [1 + 2(8/9)] - 3(1/13) = ?$$

$$A. 23/13$$

$$B. 13/23$$

$$C. 12/25$$

$$D. 17/23$$

$$E. \text{None of these}$$

$$975) [\sqrt{1089} \times 11^2] \div 2^3 = ? \times 100$$

$$A. 7$$

$$B. 6$$

$$C. 5$$

$$D. 4$$

$$E. \text{None of these}$$

$$976) 24^2 - 6^3 + \sqrt{625} + 56 = ?^2$$

$$A. 29$$

$$B. 31$$

$$C. 21$$

$$D. 19$$

$$E. \text{None of these}$$

$$977) 36\% \text{ of } 945 - 26\% \text{ of } 765 + 17.7 = ?$$

$$A. 159$$

$$B. 143$$

$$C. 167$$

$$D. 187$$

$$E. \text{None of these}$$

$$978) \sqrt{(456 + 12 + 142 - 11)} = ?$$

$$A. 13$$

$$B. 11$$

$$C. 169$$

$$D. 23$$

$$E. \text{None of these}$$

$$979) (5/22) \text{ of } 2706 + 10 = ? \times 25$$

$$A. 125$$

$$B. 5$$

$$C. 25$$



D.10

E.None of these

980) $1(1/5)$ of $1(1/2)$ of ? = 216

A.140

B.120

C.100

D.125

E.None of these

971)B

$$180.008 - 104.679 = 75.329$$

972) C.

$$270 \times 2 \times 3 = 1620$$

973) D

$$= (19 \times 377) \div 13 + 67$$

$$= 7163 \div 13 + 67$$

$$= 551 + 67 = 618$$

974) A

$$= 9/2 + 9/26 - 40/13$$

$$= 117 + 9 - 80/26$$

$$= 46/26 = 23/13$$

975) C

$$33 \times 121 = 3993/8 = 499.12 = 500$$

976) C

$$576 - 216 + 25 + 56$$

$$360 + 25 + 56 = 441 = 21 \times 21$$

977) A

$$340.2 - 198.9 = 141.3 + 17.7 = 159$$

978) A

$$38 + 142 - 11 = 169 = 13 \times 13$$

979) C

$$123 \times 5 = 615 + 10 = 625 = 25 \times 25$$

980) B

$$6/5 \times 3/2 \times x = 216$$

$$X = 216 \times 2 \times 5/6 \times 3 = 2160/18 = 120$$

981) $(70)^2 \times 4^4 \div 90^3 = ?$

A)3.7

B)1.7

C)5.8

D)9.3

E)None of these

982) $7(1/17) \times 3485 + 9(1/18) \times 2430 = ?$

A)23354

B)53345

C)46605

D)43345

E)None of these

983) $44.01 - 323.66 + 2450.50 = ? + 170.85$

A)2000

B)1240

C)1670

D)2460

E)None of these

984) 56% of 4356 = 76% of 564 + ?

A)1789

B)2100

C)2500

D)2011

E)None of these

985) $396 \div 33 \times 15 + 670 = ?(33) + 454$

A)345



- B)33
C)12
D)396
E)None of these

986) $(2809)^{1/2} + (4.98)^2 + 9 \frac{1}{2} = ?$

- A)9
B)81
C)45
D)76
E)None of these

987) $(4/9)$ of $(3/7)$ of $(11/5)$ of 1211 = ?

- A)610
B)456
C)508
D)580
E)None of these

988) $(134.25+2345.25+543.75+345.50)-$
 $(1233.50+244.50+224.25) = ?$

- A)1670
B)1667
C)1766
D)1660
E)None of these

989) $7^{1.8} \times 343^{3.2} \div 49^6 = 7^?$

- A)12
B)6
C)-0.6
D)-0.7
E)None of these

990) $34 \times 72 - ? = 11^3 + 15^2$

- A)765
B)892
C)982

- D)829
E)None of these

981) B

$4900 \times 256 / 729000 = 1.72 = 1.7$

982) C

$120/17(3485) + 163/18(2430)$
 $24600 + 22005 = 46605$

983) A

$2494.51 - 323.66 = 2170.85$

984) D

$2439.36 = 428.64 + ?$
 $? = 2010.72 = 2011$

985) C

$12 \times 15 = 180 + 670 = 850$
 $850 = 454 + 33(?)$

986) A

$53 + 24.8 + 3 = 80.8 = 81 = 9 \times 9$

987) C

$4 \times 3 \times 11 \times 1211 / 9 \times 7 \times 5 = 159852 / 315 = 507.5 = 508$

988) B

$3368.75 - 1702.25 = 1667$

989) C

$7^{1.8+9.6-12} = 7^{-0.6}$

990) B

$2448 - ? = 1331 + 225 = 1556$
 $? = 2448 - 1556 = 892$

991) $(325.25 + 25)\%$ of 3223 = ? + 267

- A)132



- B)152
C)178
D)165
E)None of these

992) $(21.85)^2 \times 7.09 + (23.06)^2 \times 6.35 = ?$

- A)6777
B)6774
C)6752
D)6762
E)None of these

993) $(1/6) \text{ of } 5640 + 285 = ?^2$

- A)25
B)55
C)35
D)45
E)None of these

994) $(1/3) \text{ of } (256/7) \text{ of } (21/16) \text{ of } (1/2) \text{ of } ? = 3648$

- A)456
B)654
C)765
D)876
E)None of these

995) $[\sqrt{(121 \times 49)}] + 3.5 \times 78 = ?^2 + 35$

- A)39
B)49
C)51
D)41
E)None of these

996) $(1/11) \text{ of } 7645 \text{ of } (1/0.5) = ? + 0.1$

- A)1240
B)1245
C)139

- D)1390
E)None of these

997) $(2505/15) \times 25 = ? \% \text{ of } 7865$

- A)53%
B)47%
C)39%
D)62%
E)None of these

998) $276.75 + 4\% \text{ of } 678 + \sqrt{0.0169} = ?$

- A)304
B)124
C)122
D)228
E)None of these

999) $(11.08)^2 + (24.88)^2 + ? = 751$

- A)11.13
B)3.17
C)9.22
D)20.7
E)None of these

1000) $9^2 \times (1/6561) \times 729 = 9^?$

- A)1
B)2
C)3
D)4
E)None of these

Solution(991-1000):

991) $13.01\% \text{ of } 3223 = 419.3 = 419$
 $419 - 267 = 152$

992) D

$477.42 \times 7.09 + 531.76 \times 6.35$
 $3384.91 + 3376.68 = 6761.59 = 6762$



993) C

$$5640/6 + 285 = 940 + 285 = 1225$$

$$1225 = 35 \times 35$$

994) A

$$256 \times 21/3 \times 7 \times 16 \times 2 = 5376/672 = 8$$

$$3648/8 = 456$$

995) D

$$\sqrt{5929} = 77$$

$$77 \div 35 = 22$$

$$22 \times 78 = 1716$$

$$1716 - 35 = 1681 = 41 \times 41 = 41^2$$

996) C

$$695/0.5 = 1390 \times 0.1 = 139$$

997) A

$$167 \times 25 = 4175$$

$$X \times 7865/100 = 4175$$

$$X = 4175 \times 100/7865 = 53.08 = 53\%$$

998) A

$$276.75 + 27.12 + \sqrt{0.0169} = 304$$

999) C

$$122.77 + 619.01 = 741.78$$

$$751 - 741.78 = 9.22$$

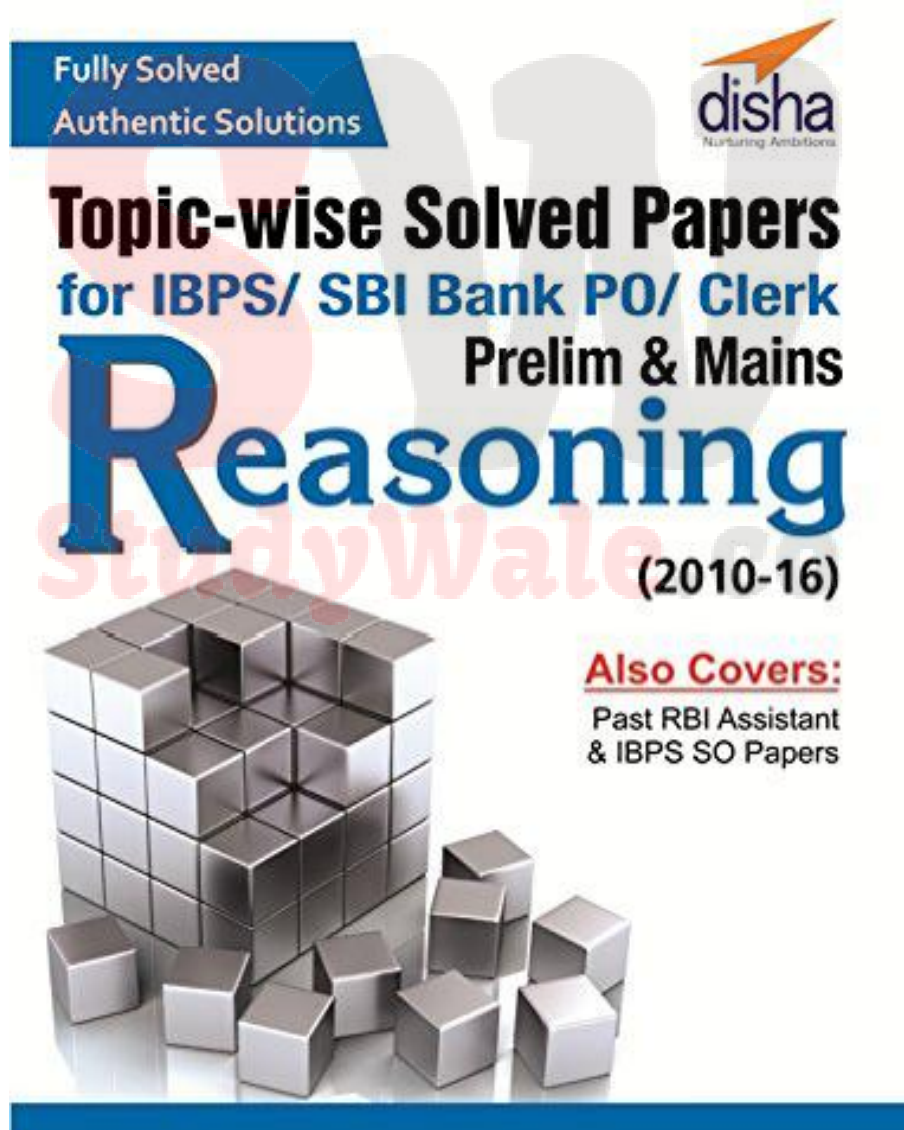
1000) A

$$9^2 \times 9^{-4} \times 9^3 = 9^{3-4+2} = 9^1$$



Approximation

This Chapter is taken from our Book:



ISBN : 978-9386320155

DIRECTIONS (Qs. 1-5) : What approximate value should come in place of the question mark (?) in the following questions ? (Note: You are not expected to calculate the exact value.)

(SBI Clerk 2010)

1. $\sqrt[3]{1231} = ?$
 (a) 11 (b) 30
 (c) 50 (d) 70
 (e) 100
2. $507.893 + 253.013 + 199.781 = ?$
 (a) 760 (b) 860
 (c) 560 (d) 460
 (e) 960
3. $7231 \div 21 \times 1.7 = ?$
 (a) 585 (b) 650
 (c) 555 (d) 525
 (e) 505
4. $\sqrt{9355} = ?$
 (a) 35 (b) 115
 (c) 25 (d) 95
 (e) 65
5. $170 \times 14 \div 181 = ?$
 (a) 3 (b) 13
 (c) 33 (d) 53
 (e) 43

DIRECTIONS (Qs. 6-8) : What approximate value should come in place of the question mark (?) in the following questions? (You are not expected to calculate the exact value.)

(SBI PO 2011)

6. 32.05% of $259.99 = ?$
 (a) 92 (b) 88
 (c) 78 (d) 90
 (e) 83
7. $\frac{1}{8}$ of $\frac{2}{3}$ of $\frac{3}{5}$ of $1715 = ?$
 (a) 80 (b) 85
 (c) 90 (d) 95
 (e) 75
8. $561 \div 35.05 \times 19.99 = ?$
 (a) 320 (b) 330
 (c) 315 (d) 325
 (e) 335

DIRECTIONS (Qs. 9-13) : What approximate value should come in place of the question mark (?) in the following questions? (Note : You are not expected to calculate the exact value).

(SBI Clerk 2011)

9. $105.003 + 307.993 + 215.630 = ?$
 (a) 610 (b) 650
 (c) 660 (d) 670

- (e) 630
10. $5223 \div 36 \times 0.93 = ?$
 (a) 135 (b) 125
 (c) 145 (d) 155
 (e) 115
11. $635 \times 455 \div 403 = ?$
 (a) 735 (b) 795
 (c) 695 (d) 685
 (e) 715
12. $\sqrt{2228} = ?$
 (a) 57 (b) 47
 (c) 67 (d) 37
 (e) 27
13. $\sqrt[3]{5332} = ?$
 (a) 8 (b) 38
 (c) 58 (d) 68
 (e) 18

DIRECTIONS (Qs. 14-18) : What approximate value should come in place of the question mark (?) in the following questions? (Note : You are not expected to calculate the exact value.)

(IBPS PO/MT 2011)

14. $\sqrt[3]{4663} + 349 = ? \div 21.003$
 (a) 7600 (b) 7650
 (c) 7860 (d) 7560
 (e) 7680
15. 39.897% of $4331 + 58.779\%$ of $5003 = ?$
 (a) 4300 (b) 4500
 (c) 4700 (d) 4900
 (e) 5100
16. $59.88 \div 12.21 \times 6.35 = ?$
 (a) 10 (b) 50
 (c) 30 (d) 70
 (e) 90
17. $43931.03 \div 2111.02 \times 401.04 = ?$
 (a) 8800 (b) 7600
 (c) 7400 (d) 9000
 (e) 8300
18. $\sqrt{6354} \times 34.993 = ?$
 (a) 3000 (b) 2800
 (c) 2500 (d) 3300
 (e) 2600

DIRECTIONS (Qs. 19-23): What approximate value should come in place of the question mark (?) in the following questions? (Note: You are not expected to calculate the exact value)

(IBPS Clerk 2011)

19. $(12.999)^3 = ?$
 (a) 1800 (b) 2100
 (c) 2000 (d) 2500
 (e) 2200
20. $50550 \div 50 \div 5 = ?$
 (a) 350 (b) 150
 (c) 300 (d) 250

- (e) 200
21. $49.0003 \div 74.999 = ?$
 (a) 0.05 (b) 0.2
 (c) 1 (d) 0.7
 (e) 2
22. $23.003 \times 22.998 + 100.010 = ?$
 (a) 630 (b) 550
 (c) 700 (d) 720
 (e) 510
23. $125.009 + 69.999 + 104.989 = ?$
 (a) 420 (b) 300
 (c) 285 (d) 415
 (e) 325

DIRECTIONS (Qs. 24-28): What approximate value should come in place of the question mark (?) in the following question? (Note: You are not expected to calculate the exact value.)

(IBPS Clerk 2011)

24. $9125 \div 90 \div 9 = ?$
 (a) 27 (b) 3
 (c) 7 (d) 21
 (e) 11
25. $6666.009 - 585.999 - 79.989 = ?$
 (a) 5000 (b) 5500
 (c) 6500 (d) 4500
 (e) 6000
26. $11.003 \times 10.998 + 111.01 = ?$
 (a) 255 (b) 195
 (c) 230 (d) 270
 (e) 210
27. $(14.(e))^2 = ?$
 (a) 235 (b) 190
 (c) 250 (d) 185
 (e) 210
28. $765.0003 \div 44.999 = ?$
 (a) 17 (b) 11
 (c) 6 (d) 22
 (e) 30

DIRECTIONS (Qs. 29-33): What approximate value should come in place of question mark (?) in the following questions? (Note: You are not expected to calculate the exact value.)

(IBPS Clerk 2011)

29. $15.003 \times 14.998 + 125.010 = ?$
 (a) 400 (b) 320
 (c) 290 (d) 270
 (e) 350
30. $9525 \div 80 \div 8 = ?$
 (a) 23 (b) 15
 (c) 7 (d) 19
 (e) 10
31. $7777.009 - 596.999 - 89.989 = ?$
 (a) 6080 (b) 6800
 (c) 7090 (d) 8200
 (e) 7500
32. $805.0003 \div 34.999 = ?$
 (a) 23 (b) 9
 (c) 14 (d) 18
 (e) 27

33. $(13.5)^2 = ?$
 (a) 170 (b) 200
 (c) 150 (d) 215
 (e) 180

DIRECTIONS (Qs. 34-38): What approximate value should come in place of question mark (?) in the following questions? (Note: You are not expected to calculate the exact value.)

(IBPS Clerk 2011)

34. $750.0003 \div 19.999 = ?$
 (a) 49 (b) 18
 (c) 22 (d) 45
 (e) 38
35. $6888.009 - 487.999 - 87.989 = ?$
 (a) 6000 (b) 6570
 (c) 6430 (d) 6200
 (e) 6310
36. $(9.(e))^2 = ?$
 (a) 75 (b) 90
 (c) 125 (d) 110
 (e) 80
37. $19.003 \times 22.998 - 280.010 = ?$
 (a) 220 (b) 110
 (c) 160 (d) 90
 (e) 200
38. $5454 \div 54 \div 5 = ?$
 (a) 15 (b) 25
 (c) 30 (d) 20
 (e) 10

DIRECTIONS (Qs. 39-43): What approximate value should come in place of the question mark (?) in the following questions? (Note : You are not expected to calculate the exact value.)

(IBPS Clerk 2011)

39. $16.003 \times 27.998 - 209.010 = ?$
 (a) 150 (b) 200
 (c) 75 (d) 240
 (e) 110
40. $840.0003 \div 23.999 = ?$
 (a) 47 (b) 8
 (c) 35 (d) 18
 (e) 23
41. $6885.009 - 419.999 - 94.989 = ?$
 (a) 6650 (b) 6830 (c) 6370 (d) 6200 (e) 6450
42. $(6.5)^2 = ?$
 (a) 58 (b) 25 (c) 43 (d) 35 (e) 50
43. $11111 \div 111 \div 11 = ?$
 (a) 9 (b) 20 (c) 5 (d) 2 (e) 25

DIRECTIONS (Qs. 44-48): What approximate value should come in place of the question mark (?) in the following questions? (Note : You are not expected to calculate the exact value)

(SBI Clerk 2012)

44. $1504 \times 5.865 - 24.091 = ?$
 (a) 7200 (b) 9500 (c) 6950 (d) 5480 (e) 8800
45. $16.928 + 24.7582 + 5.015 = ?$

- (a) 20 (b) 24
(c) 22 (d) 26
(e) None of these
46. $\sqrt[3]{7.938} \times (6.120)^2 - 4.9256 = ?$
(a) 70 (b) 55 (c) 30 (d) 25 (e) 90
47. $16.046 \div 2.8 \times 0.599 = ?$
(a) 3.5 (b) 7.9 (c) 1.9 (d) 5.6 (e) 6.2
48. $\sqrt{963} + (4.895)^2 - 9.24 = ?$
(a) 60 (b) 35 (c) 85 (d) 45 (e) 25

DIRECTIONS (Qs. 49-53) : What approximate value should come in place of the question mark (?) in the following questions? (Note : You are not expected to calculate the exact value.)

(IBPS PO/MT 2012)

49. $8787 \div 343 \times \sqrt{50} = ?$
(a) 250 (b) 140 (c) 180 (d) 100 (e) 280
50. $\sqrt[3]{54821} \times (303 \div 8) = (?)^2$
(a) 48 (b) 38 (c) 28 (d) 18 (e) 58
51. $\frac{5}{8}$ of 4011.33 + $\frac{7}{10}$ of 3411.22 = ?
(a) 4810 (b) 4980 (c) 4890 (d) 4930 (e) 4850
52. 23% of 6783 + 57% of 8431 = ?
(a) 6460 (b) 6420 (c) 6320 (d) 6630 (e) 6360
53. $335.01 \times 244.99 \div 55 = ?$
(a) 1490 (b) 1550 (c) 1420 (d) 1590 (e) 1400

DIRECTIONS (Qs. 54-58) : What approximate value should come in place of the question mark (?) in the following questions? (Note : You are not expected to calculate the exact value.)

(IBPS RRB Officer 2013)

54. $839.999 \div 48.007 = ?$
(a) 9.5 (b) 23.5 (c) 11.5 (d) 28.5 (e) 17.5
55. $\sqrt{8000} = ?$
(a) 76 (b) 89 (c) 65 (d) 97 (e) 58
56. $18.001 \times 22.999 \times 9.998 = ?$
(a) 4560 (b) 6290 (c) 4140 (d) 5920 (e) 5080
57. $99999 \div 99 \div 9 = ?$
(a) 112 (b) 211 (c) 121 (d) 221 (e) 222
58. $7984.986 + 2541.005 + 127.996 = ?$
(a) 11280 (b) 15600 (c) 14650 (d) 10654 (e) 16500

DIRECTIONS (Qs. 59-63) : What approximate value should come in the following questions at the questions places. (You are not required to calculate the exact value.)

(IBPS I.T. Officer 2013)

59. $(13.001)^3 = ?$
(a) 1900 (b) 2200
(c) 2000 (d) 1800
(e) 2100
60. $55.003 \times 54.998 + 5.001 = ?$
(a) 3500 (b) 3630
(c) 2540 (d) 3030

- (e) 2750
61. $50.001\% \text{ of } 99.99 + 49.999 = ?$
(a) 1 (b) 0.1
(c) 0.01 (d) 0.02
(e) None of these
62. $999.0001 + 899.999 - 349.88 = ?$
(a) 1549 (b) 1560
(c) 1449 (d) 1460
(e) None of these
63. $(2.0001)^3 \times (1.999)^{-2} + (3.999)^{-4} = ?$
(a) 32 (b) 16
(c) 64 (d) 256
(e) 512

DIRECTIONS (Qs. 64-68) : Find out the approximate value which should come in place of the question mark in the following questions. (You are not expected to find the exact value.)

(SBI Clerk 2014)

64. $\frac{(10008.99)^2}{10009.001} \times \sqrt{3589} \times 0.4987 = ?$
(a) 3000 (b) 300000
(c) 3000000 (d) 5000
(e) 9000000
65. $196.1 \times 196.1 \times 196.1 \times 4.01 \times 4.01 \times 4.001 \times 4.999 \times 4.999$
 $= 196.1^3 \times 4 \times ?$
(a) 100 (b) 16
(c) 10 (d) 64
(e) 32
66. $12.25 \times ? \times 21.6 = 3545.64$
(a) 20 (b) 12
(c) 15 (d) 13
(e) None of these
67. $? \% \text{ of } 45.999 \times 16\% \text{ of } 83.006 = 116.073$
(a) 6 (b) 24
(c) 19 (d) 30
(e) 11
68. $[(1.3)^2 \times (4.2)^2] \div 2.7 = ?$
(a) 7 (b) 21
(c) 18 (d) 11
(e) 16

DIRECTIONS (69-73): What approximate value will come in place of question mark (?) in the following questions (You are not expected to calculate the exact value).

(IBPS PO/MT 2014)

69. $9228.789 - 5021.832 + 1496.989 = ?$
(a) 6500 (b) 6000
(c) 6300 (d) 5700
(e) 5100
70. $1002 \div 49 \times 99 - 1299 = ?$

- (a) 700 (b) 600
(c) 900 (d) 250
(e) 400
71. 29.8% of 260 + 60.01% of 510 - 103.57 = ?
(a) 450 (b) 320
(c) 210 (d) 280
(e) 350
72. $(21.98)^2 - (25.02)^2 + (13.03)^2 = ?$
(a) 25 (b) 120
(c) 10 (d) 65
(e) 140
73. $\frac{\sqrt{2498} \times \sqrt{625}}{\sqrt{99}} = ?$
(a) 110 (b) 90
(c) 200 (d) 160
(e) 125

DIRECTIONS (Qs. 74-78) : What approximate value will come in place of the question mark (?) in the following questions ? (You are not required to calculate the exact value).

(Corporation Bank SO 2014)

74. $4 \times \frac{3}{13} \times 952 - 128 \frac{5}{7} = ?$
(a) 823 (b) 840
(c) 835 (d) 839
(e) 845
75. 105.01% of 8451 $\times \frac{3}{7}\%$ of 5006 + 9.999 = ?
(a) 8879 (b) 8860
(c) 8850 (d) 8760
(e) None of these
76. $10^3 \times 100^3 + 999999999 = 10^? + 10^?$
(a) 6, 9 (b) 9, 9
(c) 6, 12 (d) 16, 9
(e) 6, 18
77. $21 + 3.7 \times 2.9 = ?$
(a) 74 (b) 70
(c) 27 (d) 32
(e) 44
78. $22.9782 + 9.002 - ? = 23.001$
(a) 9 (b) 8
(c) 6 (d) 11
(e) 12

DIRECTIONS (Qs. 79-83) : What approximate value should come in place of the question mark (?) in the following questions? (You are not expected to calculate the exact value.)

(IBPS Clerk 2015)

79. 25.675% of 1321 + 64.328% of 4001 = ?
(a) 2912 (b) 3016
(c) 3126 (d) 3254
(e) 3348

80. $5432.91 \div 2324.65 \times 210.05 = ?$
(a) 370 (b) 410
(c) 437 (d) 491
(e) 510
81. $\sqrt{7321} \times 35.999 = ?$
(a) 2980 (b) 3080
(c) 3180 (d) 3286
(e) 3470
82. $\sqrt[3]{5826} + 456 = ? \div 31.001$
(a) 13740 (b) 15632
(c) 14690 (d) 17572
(e) 18174
83. $64.66 \div 11.31 \times 5.25 = \_\_\_\_\_\_ ?$
(a) 30 (b) 35
(c) 39 (d) 42
(e) 45

DIRECTIONS (Qs. 84-88): What approximate value will come in place of question mark (?) in the following questions (You are not expected to calculate the exact value).

(IBPS Clerk 2015)

84. $9228.789 - 5021.832 + 1496.989 = ?$
(a) 6500 (b) 6000
(c) 6300 (d) 5700
(e) 5100
85. $1002 \div 49 \times 99 - 1299 = ?$
(a) 700 (b) 600
(c) 900 (d) 250
(e) 400
86. 29.8% of 260 + 60.01% of 510 - 103.57 = ?
(a) 450 (b) 320
(c) 210 (d) 280
(e) 350
87. $(21.98)^2 - (25.02)^2 + (13.03)^2 = ?$
(a) 25 (b) 120
(c) 10 (d) 65
(e) 140
88. $\frac{\sqrt{2498} \times \sqrt{625}}{\sqrt{99}} = ?$
(a) 110 (b) 90
(c) 200 (d) 160
(e) 125

DIRECTIONS (Qs. 89-91) : What approximate value should come in place of the question mark (?) in the following questions? (Note that you are not expected to calculate the exact value)

(IBPS I.T. Officer 2015)

89. $195.994 + 13.995 + 2.5 = ?$
(a) 5.15 (b) 5.9
(c) 5.75 (d) 5.1
(e) 5.6
90. $\sqrt{441.441} + \sqrt{256.256} = ?$
(a) 37 (b) 36
(c) 34 (d) 31
(e) 30

91. $68.721 - 12.815 - 8.409 - 1.152 = ?$
 (a) 62.915 (b) 67.115
 (c) 58.295 (d) 52.715
 (e) 46.345

DIRECTIONS (Qs. 92-96) : What approximate value will come in place of the question mark (?) in the following questions? (You are not expected to calculate exact value.)

(IBPS RRB Officer 2015)

92. $(32.51)^2 - (17.45)^2 = ?$
 (a) 780 (b) 850
 (c) 680 (d) 820
 (e) 750
93. 88.25% of 450 = ? % of 530
 (a) 70 (b) 68
 (c) 75 (d) 80
 (e) 65
94. $\sqrt{898} \times (12.005)^2 + ? = 5000$
 (a) 680 (b) 720
 (c) 750 (d) 620
 (e) 630
95. $3745 \div 24.05 \times 17.98 = ?$
 (a) 2860 (b) 2800
 (c) 2760 (d) 2720
 (e) 2840
96. $117.95 \times 8.017 \times 4.98 = ?$
 (a) 4670 (b) 4780
 (c) 4840 (d) 4720
 (e) 4800

DIRECTIONS (Qs. 97-101) : What approximate value will come in place of question mark (?) in the following questions (You are not expected to calculate the exact value).

(IBPS PO Prelim 2015)

97. $9228.789 - 5021.832 + 1496.989 = ?$
 (a) 6500 (b) 6000
 (c) 6300 (d) 5700
 (e) 5100
98. $1002 \div 49 \times 99 - 1299 = ?$
 (a) 700 (b) 600
 (c) 900 (d) 250
 (e) 400
99. 29.8% of 260 + 60.01% of 510 - 103.57 = ?
 (a) 450 (b) 320
 (c) 210 (d) 280
 (e) 350
100. $(21.98)^2 - (25.02)^2 + (13.03)^2 = ?$
 (a) 25 (b) 120
 (c) 10 (d) 65
 (e) 140
101. $\sqrt{24.98} \times \sqrt{625} \times \sqrt{99} = ?$
 (a) 110 (b) 90
 (c) 200 (d) 160

- (e) 125

DIRECTIONS (Qs. 102-106) : What approximate value will come in place of the question mark (?) in the following questions?

(SBI PO Prelim 2015)

102. $2959.85 \div 16.001 - 34.99 = ?$
 (a) 160 (b) 150
 (c) 140 (d) 180
 (e) 170
103. $(1702 \div 68) \times 136.05 = ?$
 (a) 3500 (b) 3550
 (c) 3450 (d) 3400
 (e) 3525
104. $2950 \div 12.25 + 160 = ?$
 (a) 440 (b) 350
 (c) 380 (d) 360
 (e) 400
105. 25.05% of 2845 + $14.95 \times 2400 = ?$
 (a) 36,700 (b) 36,500
 (c) 35,800 (d) 35,600
 (e) 36,200
106. $(186 \times 270.99) \div 40 = ?$
 (a) 1160 (b) 1200
 (c) 1300 (d) 1180
 (e) 1260

DIRECTIONS (Qs. 107-111) : What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value.)

(SBI Clerk Main 2016)

107. 68% of 1288 + 26% of 734 - 215 = ?
 (a) 620 (b) 930
 (c) 540 (d) 850
 (e) 710
108. $(32.05)^2 - (18.9)^2 - (11.9)^2 = ?$
 (a) 670 (b) 530
 (c) 420 (d) 780
 (e) 960
109. $6578 \div 67 \times 15 = ? \times 6$
 (a) 200 (b) 250
 (c) 150 (d) 100
 (e) 300
110. $\frac{679}{45} + \frac{23}{2130} \times \frac{126}{169} = ?$
 (a) 540 (b) 760
 (c) 800 (d) 1260
 (e) 1040
111. $\sqrt{5687} \times \sqrt{1245} \div \sqrt{689} = ? \div 13$
 (a) 840 (b) 910
 (c) 1320 (d) 1120
 (e) 1550

DIRECTIONS (Qs. 112-116) : What should come in place of question mark (?) in the following number series?

(IBPS IT Specialist 2016)

112. 13 13 19 43 103 ?
 (a) 221 (b) 227
 (c) 223 (d) 217
 (e) None of these
113. 27 13 12 16.5? 75
 (a) 30.5 (b) 31.5
 (c) 37.5 (d) 39.5
 (e) None of these
114. 17 19 42 132 ? 2690
 (a) 532 (b) 536
 (c) 538 (d) 546
 (e) None of these
115. 25 29 67 217 ? 4501
 (a) 885 (b) 887
 (c) 889 (d) 891
 (e) None of these
116. 21 38 59 84 113 ?
 (a) 138 (b) 140
 (c) 142 (d) 146
 (e) None of these

DIRECTIONS (Qs. 117-121) : What approximate value should come in place of the question mark (?) in the following questions? (You are not expected to calculate the exact value.)

(IBPS PO Pre 2016)

117. 25.675% of 1321 + 64.328% of 4001 = ?
 (a) 2912 (b) 3016
 (c) 3126 (d) 3254
 (e) 3348
118. $8\left(\frac{2}{7}\right) + 30\% \text{ of } 60 + 10\left(\frac{5}{9}\right) = ?$
 (a) 32 (b) 34
 (c) 37 (d) 44
 (e) 41
119. 46% of ? = 46916
 (a) 101993.3 (b) 101991.3
 (c) 101993.1 (d) 101993.2
 (e) None of these
120. $\frac{[(729)^{1/2} + (0.0016)^{1/2}]}{8}$ of 134.567 = ?
 (a) 451 (b) 453
 (c) 455 (d) 456
 (e) 457
121. $299 \div 12 \times 13.95 + ? = 252$
 (a) 277 (b) 270
 (c) 287 (d) 275
 (e) None of these

DIRECTIONS (Qs. 122-126) : What approximate value should come in place of the question mark (?) in the following questions? (You are not expected to calculate the exact value.)

(IBPS PO Mains 2016)

122. $(1444)^{\frac{1}{2}} + \frac{56.007}{1.225}$ of 123 = ?
 (a) 5600 (b) 6550
 (c) 6552 (d) 5662
 (e) 5500
123. $(0.0144)^{1/2} + (2.5)^2 = ?$
 (a) 5 (b) 11
 (c) 6 (d) 9
 (e) 10
124. $276.75 + 4\% \text{ of } 678 + \sqrt{0.0169} = ?$
 (a) 304 (b) 124
 (c) 122 (d) 228
 (e) None of these
125. $6\left(\frac{7}{11}\right) \times 5\left(\frac{4}{9}\right) \div 9\left(\frac{1}{4}\right) = ?$
 (a) 21 (b) 13
 (c) 9 (d) 4
 (e) None of these
126. 56% of 4356 = 76% of 564 + ?
 (a) 1789 (b) 2100
 (c) 2500 (d) 2011
 (e) None of these

DIRECTIONS (Qs. 127-131) : What approximate value should come in place of the question mark (?) in the following questions? (You are not expected to calculate the exact value.)

(SBI PO Pre 2016)

127. $16.003 \times 29.998 - 40.002 \times 9.009 = ?$
 (a) 110 (b) 118
 (c) 120 (d) 124
 (e) 130
128. $420.009 \div 13.998 + 11.997 - 17.0023 = ?$
 (a) 23 (b) 24
 (c) 25 (d) 26
 (e) 27
129. $41\% \text{ of } 801 - 150.17 = ? - 57\% \text{ of } 910$
 (a) 693 (b) 694
 (c) 697 (d) 707
 (e) None of these
130. $1235.092 + 4532.998 - ? + 1279.991 = 4000.001$
 (a) 2048 (b) 3048
 (c) 3648 (d) 4048
 (e) None of these
131. $(1/2) \times (1/17.01) \times 289 \times ? = 4.001 \times 2.01$
 (a) $\frac{16}{17}$ (b) $\frac{14}{17}$
 (c) $\frac{15}{17}$ (d) $\frac{13}{17}$
 (e) $\frac{17}{16}$

Hints & Solutions

1. (a) ? = 11 because $11 \times 11 \times 11 = 1331$ and $10 \times 10 \times 10 = 1000$
2. (e) ? = $508 + 253 + 200 = 961$
∴ Required answer = 960
3. (a) ? = $\frac{7231}{21} \times 1.7 = 585$
4. (d) ? = $\sqrt{9355} = 95$
5. (b) ? = $170 \times 14 \div 181 = \frac{170 \times 14}{181} = 13$
6. (e) $\frac{32}{100} \times 260 = 83.2 = 83$
7. (b) $\frac{1}{8} \times \frac{2}{3} \times \frac{3}{5} \times 1715 = 85.75 = 85$
8. (a) $\frac{561}{35} \times 20 = 320.5 = 320$
9. (e) ? = $105 + 308 + 216 = 629$
∴ Required answer = 630
10. (c) ? = $5220 \div 36 \times 1 = 145$
11. (e) ? = $635 \times 455 \div 400 = 722$
∴ Required answer = 715
12. (b) ? = $\sqrt{2228} \approx \sqrt{2209} \approx 47$
13. (e) ? = $\sqrt[3]{5332} \approx 18$
($18 \times 18 \times 18 = 5832$)
14. (e) ? + $21.003 = \sqrt[3]{4663} + 349$
⇒ ? + 21 = $17 + 349 = 366$
∴ ? = $366 \times 21 = 7686 = 7680$
15. (c) ? = $4331 \times \frac{39.897}{100} + 5003 \times \frac{58.779}{100}$
 $= 4330 \times \frac{40}{100} + 5000 \times \frac{59}{100}$
 $= 1732 + 2950 = 4682 \approx 4700$
16. (c) ? = $59.88 \div 12.21 \times 6.35$
 $= 60 \div 12 \times 6 = 60 \times \frac{1}{12} \times 6 = 30$
17. (e) ? = $43931.03 \div 2111.02 \times 401.04$
 $\approx 43930 \div 2110 \times 400$
 $= 43930 \times \frac{1}{2110} \times 400 = 8300$
18. (b) ? = $\sqrt{6354} \times 34.993 \approx 80 \times 35 = 2800$
19. (e) ? = $(12.999)^3 = (13)^3 - 2197 = 2200$
20. (e) ? = $1011 \div 5 = 202.2 = 200$
21. (d) ? = $\frac{49}{75} = 0.655 = 0.7$
22. (a) ? = $23 \times 23 + 100 = 529 + 100 = 629 = 630$
23. (b) ? = $125 + 70 + 105 = 195 + 105 = 300$
24. (e) $\frac{9125}{90 \times 9} - 11.26 = 11$
25. (e) $6666 - 586 - 80 = 6000$
26. (c) $11 \times 11 + 111 = 121 + 111 = 232$
27. (e) $(14.5)^2 = 210.25 = 210$
28. (a) $\frac{765}{45} = 17$
29. (e) $15 \times 15 + 125 = 225 + 125 = 350$
30. (b) $\frac{9525}{80 \times 8} = \frac{1905}{128} = 14.88 \approx 15$
31. (c) $7777 - 597 - 90 = 7777 - 687 = 7090$
32. (a) $\frac{805}{35} = \frac{161}{7} = 23$
33. (e) $(13.5)^2 = 182.25 \approx 180$
34. (e) ? = $\frac{750}{20} = 37.5$
35. (e) $6888 - 488 - 89 = 6888 - 577 = 6311 = 6310$
36. (b) $(9.5)^2 = 90.25 = 90$
37. (c) $19 \times 23 - 280 = 437 - 280 = 157 = 160$
38. (d) $\frac{5454}{54 \times 5} = \frac{101}{5} = 20.1 = 20$
39. (d) ? = $16.003 \times 27.998 - 209.010 = 16 \times 28 - 209$
 $= 448 - 209 = 239 \approx 240$ (Approx)
40. (c) ? = $840.003 \div 23.999 = 840 \div 24 \approx 35$ (Approx)
41. (c) ? = $6885.009 - 419.999 - 94.989 = 6885 - 420 - 95$
 ≈ 6370 (Approx)
42. (c) ? = $(6.5)^2 = 42.25 \approx 43$ (Approx)
43. (a) ? = $11111 \div 111 \div 11 = 11111 \times \frac{1}{111} \times \frac{1}{11}$
 $= \frac{11111}{1221} = 9.09 \approx 9$ (Approx)
44. (e) $1504 \times 5.865 - 24.091 = ?$
∴ ? = $8796.869 = 8800$
45. (c) $16.928 + (24.7582 \div 5.015) = ?$
 $16.928 + (4.93) = ?$
∴ ? = $21.86 = 22$
46. (a) ? = $\sqrt[3]{7.938} \times (6.120)^2 - 4.9256$
 $= (2 \times 37.4) - 4.9256$
 $= 74.9088 - 4.9256$

- $= 70 \quad \therefore ? = 70$
 47. (a) $16.046 \div 2.8 \times 0.599 = ?$
 $(5.73) \times 0.599 = ?$
 $\therefore ? = 3.43 = 3.5$
48. (d) $\sqrt{963} + (4.895)^2 - 9.24 = ?$
 $31 + 23.9 - 9.24 = ?$
 $54.91 - 9.24 = ?$
 $\therefore ? = 45.6 = 45$
49. (c) $8787 \div 343 \times \sqrt{50} = ?$
 $\Rightarrow 25 \times 7 = ?$
 $\therefore ? = 175 \approx 180$
50. (b) $\sqrt[3]{54821} \times (303 \div 8) = (?)^2$
 $\Rightarrow 38 \times 37.5 (?)^2$
 $? = \sqrt{38 \times 38}$
 $? = 38$
51. (c) $\frac{5}{8}$ of 4011.33 + $\frac{7}{10}$ of 3411.22 = ?
 $\Rightarrow \frac{5}{8} \times 4010 + \frac{7}{10} \times 3410 \Rightarrow 2506 + 2387$
 $= 4893 \approx 4890$
52. (e) 23% of 6783 + 57% of 8431 = ?
 $\Rightarrow ? = 1559 + 4805$
 $\therefore ? = 6364 \approx 6360$
53. (a) $335.01 \times 244.99 \div 55$
 $\Rightarrow ? = \frac{335 \times 245}{55}$
 $\therefore ? = 1492 \approx 1490$
54. (e) $? = 840 \div 48 = 17.5$
55. (b) $? = \sqrt{8000} = 89$
56. (c) $? = 18 \times 23 \times 10 = 4140$
57. (a) $? = \frac{99999}{99 \times 9} = 112$
58. (d) $? = 7985 + 2541 + 128 = 10654$
59. (b) $? = (13.001)^3 = (13)^3$
 $= 2197 = 2200$
60. (d) $? = 55 \times 55 \div 5$
 $= 3025 \div 5 = 3030$
61. (a) $? = \frac{100 \times 50}{100} \div 50 = 1$
62. (a) $? = 999 + 900 - 350$
 $= 1549$
63. (e) $? = 2^3 \times (2)^{-2} \div (4)^{-4}$
 $= \frac{2}{(4)^{-4}} = 2 \times 2^8 = 2^9 = 512$
64. (b) $? = \frac{(10008.99)^2}{10009.001} \times \sqrt{3589} \times 0.4987$
 $= (10009)^2 \times \sqrt{3600} = 0.50$
 $= 10009 \times 60 \times 0.50 = 300000$
65. (a) $196.1 \times 196.1 \times 196.1 \times 4.01 \times 4.01 \times 4.001 \times 4.999 \times 4.999$
 $= (196.1)^3 \times 4 \times ?$
 or $4 \times ? = 4.01 \times 4.001 \times 4.999 \times 4.999$ or $? = 4 \times 5 \times 5 = 100$
66. (d) $\therefore 12.25 \times ? \times 21.6 = 3545.64$
 $\therefore ? = \frac{3545.64}{264.6} = 13.4 \approx 13$
67. (c) Let x be there in place of question mark so, $x\%$ of $45.999 \times 16\%$ of $83.006 = 116.073$.
 We take $\frac{x}{100} \times 46 \times \frac{16}{100} \times 83 = 116$
 $x \times 0.46 \times 13.28 = 116$
 or $x \times 6.11 = 116$
 $\Rightarrow x = 18.98 \approx 19$.
68. (d) $? = \frac{1.69 \times 17.64}{2.7} = 11.04 \approx 11$
69. (d) Having a glance at the given options one can find out that the two nearest values have a difference of 300. So round off the numbers to the nearest ten's values. $9228.789 \approx 9230$; $5021.832 \approx 5020$ and $1496.989 \approx 1500$ Now the equation will become $9230 - 5020 + 1500 = ?$
 $? = 5710$
 But the nearest value is 5700.
70. (a) It can be rounded off to the nearest ten's places. $1002 \approx 1000$; $49 \approx 50$; $99 \approx 100$ and $1299 \approx 1300$ Now the equation will become $1000 \div 50 \times 100 - 1300 = ?$
 $20 \times 100 - 1300 = ?$
 $2000 - 1300 = ?$
 $? = 700$
71. (d) The difference between two nearest values is 70 (210 and 280). So round off the numbers to the nearest integers. 29.8% of $260 \approx 30\%$ of 260 ; 60.01% of $510 \approx 60\%$ of 510 and $103.57 \approx 104$ Now the equation will become 30% of $260 + 60\%$ of $510 - 104 = ?$
 $30/100 \times 260 + 60/100 \times 510 - 104 = ?$
 $78 + 306 - 104 = ?$
 $? = 384 - 104 = 280$
72. (a) $(21.98)^2 \approx (22)^2$
 $(25.02)^2 \approx (25)^2$
 and $(13.03)^2 \approx (13)^2$
 The equation will become $22^2 - 25^2 + 13^2 = ?$
 $484 - 625 + 169 = ?$
 $653 - 625 = ?$
 $? = 28$ so the nearest value is 25
73. (e) $\frac{50 \times 25}{10} = \frac{1250}{10} = 125$

74. (a) $? = \frac{4 \times 3}{12} \times 952 - 129$
 $= 952 - 129 = 823$
75. (b) $? = \frac{8450 \times 105}{100} - 5006 \times \frac{3}{700} + 10$
 $= 8872 - 21 + 10 = 8860$
76. (b) $10^3 \times 100^3 + 10^9 = 10^7 + 10^7$
 $\Rightarrow 10^9 + 10^9 = 10^7 + 10^7 \Rightarrow ? = 9$
77. (d) $? = 21 + 3.7 \times 3 = 21 + 11.1 = 32.1$
78. (a) $23 + 9 - ? = 23$
 $\Rightarrow ? = 9$
79. (a) 2912
80. (d) 491
81. (b) 3080
82. (c) 14690
83. (a) 30
84. (d) Having a glance at the given options one can find out that the two nearest values have a difference of 300. So round off the numbers to the nearest ten's values.
 $9228.789 \approx 9230$; $5021.832 \approx 5020$ and $1496.989 \approx 1500$
 Now the equation will become
 $9230 - 5020 + 1500 = ?$
 $? = 5710$
 But the nearest value is 5700.
85. (a) It can be rounded off to the nearest ten's places.
 $1002 \approx 1000$; $49 \approx 50$; $99 \approx 100$ and $1299 \approx 1300$
 Now the equation will become
 $1000 \div 50 \times 100 - 1300 = ?$
 $20 \times 100 - 1300 = ?$
 $2000 - 1300 = ?$
 $? = 700$
86. (d) The difference between two nearest values is 70 (210 and 280). So round off the numbers to the nearest integers. 29.8% of 260 $\approx 30\%$ of 260; 60.01% of 510 $\approx 60\%$ of 510 and $103.57 \approx 104$
 Now the equation will become
 30% of 260 + 60% of 510 - 104 = ?
 $30/100 \times 260 + 60/100 \times 510 - 104 = ?$
 $78 + 306 - 104 = ?$
 $? = 384 - 104 = 280$
87. (a) $(21.98)^2 \approx (22)^2$
 $(25.02)^2 \approx (25)^2$
 and $(13.03)^2 \approx (13)^2$
 The equation will become
 $22^2 - 25^2 + 13^2 = ?$
 $484 - 625 + 169 = ?$
 $653 - 625 = ?$
 $? = 28$ so the nearest value is 25
88. (e) $\frac{50 \times 25}{10} = \frac{1250}{10} = 125$
89. (e) $\frac{1}{14} \times \frac{96}{2.5} = 5.6$
90. (a) $? = \sqrt{441.441} + \sqrt{256.256}$
 $= \sqrt{441} + \sqrt{256}$
 $= (21 + 16) = 37$
91. (e) $68 - 12 - 8 - 1 = 47$
92. (e) $? = (32.51 + 17.45)(32.51 - 17.45)$
 $= 49.96 \times 15.06$
 $= 50 \times 15 = 750$
93. (c) $\frac{450 \times 88}{100} = \frac{530 \times ?}{100}$
 $\Rightarrow ? = \frac{450 \times 88}{530} = 75$
94. (a) $\sqrt{900} \times (12)^2 + ? = 5000$
 $[898 - 900; 12.005 - 12]$
 $\Rightarrow 30 \times 144 + ? = 5000$
 $\Rightarrow ? = 5000 - 4320 = 680$
95. (b) $? = \frac{3745}{24} \times 18 = 2808.75$
 $\therefore$ Required answer = 2800
96. (d) $? = 118 \times 8 \times 5 = 4720$
97. (d) $9228.789 \approx 9230$; $5021.832 \approx 5020$ and $1496.989 \approx 1500$
 Now the equation will become
 $9230 - 5020 + 1500 = ?$
 $? = 5710$
 But the nearest value is 5700.
 [Note: Even rounding of the numbers to nearest hundred places gives the same]
98. (a) $1002 \approx 1000$; $49 \approx 50$; $99 \approx 100$ and $1299 \approx 1300$
 Now the equation will become
 $1000 \div 50 \times 100 - 1300 = ?$
 $20 \times 100 - 1300 = ?$
 $2000 - 1300 = ?$
 $? = 700$
99. (d) The difference between two nearest values is 70 (210 and 280). So round off the numbers to the nearest integers.
 29.8% of 260 $\approx 30\%$ of 260; 60.01% of 510 $\approx 60\%$ of 510 and $103.57 \approx 104$
 Now the equation will become
 30% of 260 + 60% of 510 - 104 = ?
 $30/100 \times 260 + 60/100 \times 510 - 104 = ?$
 $78 + 306 - 104 = ?$
 $? = 384 - 104 = 280$
100. (a) $(21.98)^2 \approx (22)^2$
 $(25.02)^2 \approx (25)^2$
 and $(13.03)^2 \approx (13)^2$
 The equation will become
 $22^2 - 25^2 + 13^2 = ?$
 $484 - 625 + 169 = ?$
 $653 - 625 = ?$
 $? = 28$ so the nearest value is 25
101. (e) $\sqrt{24.98} \times \sqrt{6.25} \times \sqrt{99} = ?$
 $5 \times 2.5 \times 10 = 125$

102. (b) $? = 2959.85 \div 16.001 - 34.99$
 $= 2960 \div 16 - 35$

$$= \frac{2960}{16} - 35 = 185 - 35$$

$$= 150$$

103. (d) $? = (1702 \div 68) \times 136.05$

$$= \frac{1700}{68} \times 136$$

$$= 3400$$

104. (e) $? = \frac{2950}{12.25} + 160$

$$= \frac{2950}{12} + 160 = 405.8$$

Clearly $12.25 = 12 < 12.25$

Hence, $2950 \div 12$ will give larger quotient.

$\therefore$ Our answer should be 405.

105. (a) $? = 25.05\% 2845 + 14.95 \times 2400$

$$= \frac{25}{100} \times 2845 + 15 \times 2400$$

$$= 711.25 + 36000$$

$$= 36711.25 = 36700$$

106. (e) $? = \frac{186 \times 271}{40} = 1260.15$

$$= 1260$$

107. (d) $? = \frac{68 \times 1288}{100} + \frac{26 \times 734}{100} - 215$

$$= 875.84 + 190.84 - 215$$

$$= 876 + 191 - 215$$

$$= 852 - 850$$

108. (b) $? = (32.05)^2 - (18.9)^2 - (11.9)^2$
 $= 1027 - 357 - 144$

$$= 526 = 530$$

109. (b) $? = \frac{6578 \times 15}{67 \times 6} = 250$

110. (e) $? = \frac{680}{45} \times \frac{2130}{23} \times \frac{126}{169}$

$$= \frac{680}{45} \times \frac{2130}{23} \times \frac{126}{170} = 1043 = 1040$$

111. (c) $\sqrt{5687} \times \sqrt{1245} \div \sqrt{689} = ? \div 13$

$$\therefore ? = \frac{\sqrt{5687} \times \sqrt{1245} \times 13}{\sqrt{689}}$$

$$= \frac{74.4 \times 35.2 \times 13}{26.2} = 1320$$

112. (c)

13	13	19	43	103	223
$\begin{array}{cccccc} \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +0 & +6 & +24 & +60 & +120 & \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \\ +6 & +18 & +36 & +60 & & \\ \uparrow & \uparrow & \uparrow & \uparrow & & \\ +12 & +18 & +24 & & & \\ \uparrow & \uparrow & \uparrow & & & \\ +6 & +6 & & & & \end{array}$					

113. (a)

27	13	12	16.5	?	75
$\begin{array}{ccccc} \uparrow & & \uparrow & & \uparrow \\ & & & & & \\ & & & & & \end{array}$					

$$27 + 12 = \frac{39}{3} = 13 \quad 16.5 + 75 = \frac{91.5}{3} = 30.5$$

114. (b)

17	19	42	132	536	2690
$\begin{array}{ccccc} \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ 17 \times 1 + 2 & 19 \times 2 + 4 & 42 \times 3 + 6 & 132 \times 4 + 8 & 536 \times 5 + 10 \end{array}$					

115. (e)

25	29	67	217	893	4501
$\begin{array}{ccccc} \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ & & & & & \end{array}$					

$$\times 1 + 2^2 \times 2 + 3^2 \times 3 + 4^2 \times 4 + 5^2 \times 5 + 6^2$$

116. (e)

21	38	59	84	113	146
$\begin{array}{ccccc} \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +17 & +21 & +25 & +29 & +33 \end{array}$					

117. (a)

118. (c)

119. (b) $(46/100) \times ? = 46916$
 $? = (46916 \times 100)/46 = 101991.3$

120. (c) $27 + 0.04 = \frac{27.04}{8} = 3.38$

$$3.38 \times 134.567 = 454.8 = 455$$

121. (a) $24.92 \times 13.95 = 347.634$
 $625 - 347.634 = 277.37$

122. (d) $38 + 45.72(123) = 5661.56 = 5662$

123. (c) $0.12 + 6.25 = 6.37$

124. (a) $276.75 + 27.12 + ?0.0169 = 304$

125. (d) $\frac{73}{11} \times \frac{49}{9} \times \frac{4}{37} = 3.9 = 4$

126. (d) $2439.36 = 428.64 + ?$
 $? = 2010.72 = 2011$

127. (c) $16 \times 30 - 40 \times 9 = 480 - 360 = 120$

128. (c) $\frac{420}{14} + 12 - 17 = 25$

129. (c) $\frac{41}{100} \times 800 - 150 = x - \left(\frac{57}{100}\right) \times 910$

130. (b) $? = 7048 - 4000 = 3048$

131. (a) $? = \frac{(4 \times 2 \times 2)}{17} = \frac{16}{17}$

Sankalp Education

9. Simplification

Directions (Q.1 to 290) : What should come in place of the question mark (?) in the following question?

- 1) $\sqrt{1521} \div 3 \times 12 = ?$
a) 158 b) 165 c) 167
d) 156 e) None of these
- 2) $672 \div 24 \times 18 + 153 - 345 = ?$
a) 318 b) 324 c) 314
d) 305 e) None of these
- 3) $3/4$ of 26% of 850 = ?
a) 165.75 b) 160.35 c) 163.75
d) 167.75 e) None of these
- 4) $144 \div 8 \div ? = 9$
a) 3 b) 2 c) 4
d) 6 e) None of these
- 5) $? \%$ of 590 - 11.8 = 236
a) 48 b) 45 c) 42
d) 41 e) None of these
- 6) $(8)^2 \%$ of ? = 723 + 45
a) 1200 b) 1400 c) 1100
d) 1020 e) None of these
- 7) $5554 - 333 + 45 = ? + 2525$
a) 2174 b) 2417 c) 2714
d) 2741 e) None of these
- 8) $3\frac{1}{4} + 2\frac{1}{2} + 6\frac{1}{6} = ?$
a) $13\frac{11}{12}$ b) $11\frac{11}{12}$ c) $12\frac{11}{12}$
d) $15\frac{11}{12}$ e) None of these
- 9) $(450 \div 30)^2 - (12)^2 = (?)^2$
a) 9^2 b) -9^2 c) $\sqrt{9}$
d) 81 e) None of these
- 10) $56.73 + 32.88 + 45.23 = ?$
a) 130.84 b) 134.84 c) 140.84
d) 144.84 e) None of these
- 11) $5^2 \times 25^3 \times 625 = (5)^?$
a) 11 b) 10 c) 13
d) 12 e) None of these
- 12) $5^2 \times 255 \div 5 - 1116 = ?$
a) 149 b) 147 c) 159
d) 157 e) None of these

13) $(\sqrt{5} - 1)^2 = ? - 2\sqrt{5}$

- a) 6 b) $6 + 2\sqrt{5}$ c) $6\sqrt{5}$
d) $6 - 2\sqrt{5}$ e) None of these

14) $? \times \frac{7}{12} \times \frac{5}{7} \times \frac{1}{2} = 2500$

- a) 14000 b) 13000 c) 12000
d) 11000 e) None of these

15) $556 - 441 + 223 - 112 = ?$

- a) 262 b) 222 c) 226
d) 266 e) None of these

16) $168 \div 14 \div 3 = ?$

- a) 5 b) 4 c) 2
d) 6 e) None of these

17) $9999 - 3434 - 2525 + 1313 = ?$

- a) 3535 b) 5353 c) 5335
d) 3553 e) None of these

18) $3\frac{2}{3} \times 4\frac{1}{3} \times 1\frac{4}{7} \div \frac{11}{12} = ?$

- a) $27\frac{4}{21}$ b) $26\frac{5}{21}$ c) $27\frac{5}{21}$
d) $26\frac{4}{21}$ e) None of these

19) $\sqrt{5^2 \times 7^2 + 12^2} = ?$

- a) 37 b) 35 c) 36
d) 34 e) None of these

20) $35\% \text{ of } 180 - \sqrt{49} = ?$

- a) 62 b) 55 c) 58
d) 67 e) None of these

21) $19.673 - 12.235 + 15.224 + 10.111 = ?$

- a) 32.773 b) 37.223 c) 33.772
d) 34.773 e) None of these

22) $(343 - 103) \div (216 \div 36) = ?$

- a) 30 b) 40 c) 32
d) 42 e) None of these

23) $(0.027)^2 \times (0.09)^2 \div (0.3)^6 = (0.3)^?$

- a) 3 b) 2 c) 5
d) 6 e) None of these

- 24) $\sqrt{961} + \sqrt{784} + \sqrt{49} = ?$
 a) 65 b) 67 c) 63
 d) 66 e) None of these
- 25) $35\% \text{ of } 740 - 35\% \text{ of } 520 = ?$
 a) 78 b) 71 c) 75
 d) 77 e) None of these
- 26) $58^2 - 8^2 = 300 + ?$
 a) 3000 b) 3300 c) 3030
 d) 3003 e) None of these
- 27) $3/4 \text{ th of } 35\% \text{ of } ? = 1328.25$
 a) 5600 b) 5080 c) 5006
 d) 5800 e) None of these
- 28) $763 \times 23 = ? + 7^2$
 a) 15700 b) 17500 c) 17800
 d) 17600 e) None of these
- 29) $17/19 \times 53/221 \times 91/106 = ?$
 a) $7/38$ b) $5/83$ c) $7/33$
 d) $5/38$ e) None of these
- 30) $958 \times 63 \div 3^2 = ?$
 a) 7606 b) 6706 c) 6760
 d) 6607 e) None of these
- 31) $2/5 \text{ th of } 3/4 \text{ th of } 1/4 \text{ th of } 26000 = ?$
 a) 1900 b) 1950 c) 1980
 d) 1930 e) None of these
- 32) $28 + 369 \div 9 = ?$
 a) 72 b) 63 c) 65
 d) 69 e) None of these
- 33) $? \% \text{ of } 4500 = 3000 - 480$
 a) 65 b) 53 c) 56
 d) 58 e) None of these
- 34) $(855 - 653) \times 3^2 = ?$
 a) 1881 b) 1188 c) 1818
 d) 1811 e) None of these
- 35) $791.52 + 463.88 - 540.25 = ?$
 a) 725.25 b) 711.11 c) 735.35
 d) 715.15 e) None of these
- 36) $\sqrt{576} + \sqrt{841} = \sqrt{?}$
 a) 2890 b) 2098 c) 2909
 d) 2809 e) None of these
- 37) $(69.3 \times 15.2) + (4.5 \times 19.8) = ?$
 a) 1142.46 b) 1152.46 c) 1412.46
 d) 1124.26 e) None of these
- 38) $6^5 \times 36^2 \times 1296 = 6^?$
 a) 13 b) 12 c) 14
 d) 11 e) None of these
- 39) $\sqrt{(12^2 + 5^2)} \times 2 = ?$
 a) 26 b) 28 c) 29
 d) 23 e) None of these
- 40) $3\frac{1}{2} + 1\frac{3}{4} + 1\frac{5}{8} = ?$
 a) $6\frac{9}{8}$ b) $6\frac{5}{8}$ c) $6\frac{7}{8}$
 d) $5\frac{7}{8}$ e) None of these
41. $32\% \text{ of } 350 = 73 + ?$
 a) 49 b) 39 c) 42
 d) 185 e) none of these
42. $\frac{2}{5} \text{ of } \frac{7}{9} \text{ of } (?) = 294$
 a) 955 b) 845 c) 805
 d) 745 e) none of these
43. $6^2 \times 5^2 = 545 - 324 + ?$
 a) 669 b) 579 c) 459
 d) 679 e) none of these
44. $\sqrt{(7)^2 + (17)^2 + (5)^2 - 2} = ?$
 a) 21 b) $\sqrt{363}$ c) 361
 d) 19 e) none of these
45. $4\frac{1}{3} + 2\frac{1}{6} + 6\frac{1}{2} = ?$
 a) 12 b) 13 c) $2\frac{5}{6}$
 d) $2\frac{1}{3}$ e) none of these
- 46) $256 \times ? = 8^2 \times 10^2$
 a) 20 b) 25 c) 23
 d) 27 e) None of these
- 47) $38\% \text{ of } ? = 3596 - 632$
 a) 7800 b) 8700 c) 7900
 d) 8900 e) None of these
- 48) $(963 - 221) \times (?)^2 = 36358$
 a) 8 b) 6 c) 2
 d) 4 e) None of these
- 49) $16/23 \times 47/288 \times 92/141 = ?$
 a) $4/27$ b) $2/27$ c) $2/29$
 d) $3/28$ e) None of these
- 50) $33 + 371 \div 7 = ?$
 a) 89 b) 85 c) 86
 d) 84 e) None of these
- 51) $1\frac{3}{5} + 1\frac{8}{9} + 2\frac{4}{5} = ?$
 a) $6\frac{19}{45}$ b) $6\frac{16}{45}$ c) $6\frac{17}{45}$
 d) $6\frac{13}{45}$ e) None of these

- 52) $456.53 - 261.22 + ? = 328.59$
 a) 133.28 b) 138.23 c) 143.28
 d) 123.28 e) None of these
- 53) $\sqrt{3969} + \sqrt{?} = \sqrt{13225}$
 a) 2809 b) 2601 c) 2916
 d) 2740 e) None of these
- 54) $\frac{3}{4}$ th of ? of $\frac{1}{4}$ th of 35600 = 1668.75
 a) $\frac{2}{3}$ rd b) $\frac{3}{4}$ th c) $\frac{2}{5}$ th
 d) $\frac{1}{4}$ th e) None of these
- 55) $\sqrt{25^2 - 15^2} \div 4 = ?$
 a) 8 b) 5 c) 2
 d) 12 e) None of these
- 56) $8^4 \times 32768 \times 64^2 = (8)^?$
 a) 13 b) 12 c) 11
 d) 10 e) None of these
- 57) $96^2 - 12^2 = 3535 + ?$
 a) 5537 b) 5573 c) 5753
 d) 5375 e) None of these
- 58) $(39.3 \times 53.4) + (26.7 \times 5.9) = ?$
 a) 2526.15 b) 2256.15 c) 2562.15
 d) 2652.15 e) None of these
- 59) 26% of $\frac{1}{4}$ th of 6200 = ?
 a) 402 b) 405 c) 407
 d) 409 e) None of these
- 60) $958 \times 42 \div 8 = ?$
 a) 5029.5 b) 5039.3 c) 5049.3
 d) 5019.5 e) None of these
- 61) $(81 + 17 - 57) + (48 \div 12 \times 3) = ?$
 a) 54 b) 67 c) 51
 d) 53 e) None of these
- 62) $\sqrt{27} + \sqrt{48} - \sqrt{75} = ?$
 a) $\sqrt{3}$ b) $4\sqrt{3}$ c) $2\sqrt{3}$
 d) $3\sqrt{3}$ e) None of these
- 63) ?% of 250 - 51 = 18% of 50
 a) 25 b) 20 c) 24
 d) 26 e) None of these
- 64) $\left[4\frac{2}{3} \times 2\frac{1}{7}\right] - 7\frac{1}{7} = ?$
 a) $2\frac{1}{7}$ b) $2\frac{6}{7}$ c) $3\frac{5}{7}$
 d) $4\frac{3}{7}$ e) None of these
- 65) $5^{2.6} \times (25)^{7.4} \div (125)^{1.1} = 5^{(?)}$
 a) 14.1 b) 11.1 c) 15.5
 d) 13.5 e) None of these
- 66) 22% of 250 + 35% of 460 = ?
 a) 216 b) 226 c) 232
 d) 242 e) None of these

- 67) $(5)^3 \div (25)^2 \times 125 = (5)^?$
 a) 2 b) 4 c) 3
 d) 5 e) None of these
- 68) $5\frac{1}{3}$ of $2\frac{1}{4}$ of (?) = 288
 a) 4 b) 24 c) 16
 d) 12 e) None of these
- 69) $55 \times 6 \div 5 - 30 = (?)^2$
 a) -6 b) -36 c) $\sqrt{6}$
 d) $(36)^2$ e) $-\sqrt{6}$
- 70) $944 - 307 + 119 = ? + (16)^2$
 a) 508 b) 396 c) 500
 d) 408 e) None of these
- 71) $5544 - 6633 + 7744 = ? + 1111$
 a) 5455 b) 5454 c) 5545
 d) 5445 e) None of these
- 72) $34 \times 16 \div 5 - 58.8 = ?$
 a) 4 b) 35.2 c) 50
 d) 44.2 e) None of these
- 73) $(36.8 \times 4 \times 5) \div 92 = (?)^2$
 a) 8 b) 64 c) $(64)^2$
 d) $\sqrt{8}$ e) 16
- 74) $1\frac{1}{5} - 1\frac{1}{10} + 1\frac{1}{4} = ?$
 a) $1\frac{3}{10}$ b) $1\frac{3}{20}$ c) $2\frac{7}{10}$
 d) $1\frac{7}{10}$ e) None of these
- 75) $67.39 - 11.78 + 19.63 = ? + 22.41$
 a) 52.73 b) 52.83 c) 65.78
 d) 64.78 e) None of these
- 76) $63/13 \times 65/21 \div 75/9 = ?$
 a) $2\frac{1}{5}$ b) $1\frac{4}{5}$ c) $\frac{5}{9}$
 d) $7/9$ e) None of these
- 77) 52% of ? - 29 = 309
 a) 640 b) 560 c) 550
 d) 650 e) None of these
- 78) $18 \times 8 + 117 + 35 = 158 + ?$
 a) 148 b) 158 c) 115
 d) 138 e) None of these
- 79) $0.6 \times 1.8 \div 0.5 \times 12 = ?$
 a) 24.92 b) 25.92 c) 18.46
 d) 17.46 e) None of these

- 80) $5/18$ of $6/25$ of $675 = ?$
 a) 40 b) 55 c) 35
 d) 75 e) None of these
- 81) $(15 \times 7) - (6 \times 3) - 63 = ? \times 6$
 a) 4 b) 16 c) 144
 d) 132 e) None of these
- 82) $7/12 - 3/4 + 2/3 = ?$
 a) $5/6$ b) $5/12$ c) $1/2$
 d) $1/6$ e) None of these
- 83) $27 \times 81 \div 243 = 3^{(?-4)}$
 a) 4 b) 5 c) 6
 d) 2 e) None of these
- 84) $521.42 - 86.74 = ? + 112.89$
 a) 321.69 b) 312.79 c) 322.79
 d) 312.69 e) None of these
- 85) $(69 - 115) \div 23 = ? \div (-8)$
 a) 24 b) -16 c) -24
 d) 16 e) None of these
- 86) $5/19$ of 57% of $480 = ?$
 a) 64 b) 48 c) 72
 d) 78 e) None of these
- 87) $\sqrt{96 \times 12 \div 18 + 26 - 9} = ?$
 a) 81 b) $(81)^2$ c) 3
 d) 9 e) None of these
- 88) $? \% \text{ of } 850 + 541 = 1255$
 a) 74 b) 84 c) 58
 d) 78 e) None of these
- 89) $(5)^2 + (4)^3 - \sqrt{676} = (?)^2$
 a) $\sqrt{3}$ b) 63 c) $\sqrt{63}$
 d) 9 e) 7
- 90) $14.743 - 19.679 + 13.167 = ?$
 a) 8.231 b) 11.421 c) 9.631
 d) 12.781 e) None of these
- 91) $8544 - 5757 + 1111 = 1255 + ?$
 a) 2463 b) 2643 c) 2453
 d) 2653 e) None of these
- 92) $11/12 + 15/24 - 5/12 = ?$
 a) $1\frac{1}{24}$ b) $1\frac{1}{12}$ c) $1\frac{1}{8}$
 d) $1\frac{3}{8}$ e) None of these
- 93) $35.62 - 12.67 + 15.96 = ? - 43.22$
 a) 85.13 b) 82.13 c) 87.13
 d) 83.13 e) None of these

- 94) $1\frac{3}{8} + 1\frac{1}{4} - 1\frac{11}{16} = ?$
 a) $13/16$ b) $12/17$ c) $15/16$
 d) $11/16$ e) None of these
- 95) $5/11$ of 55% of $1500 = ?$
 a) 395 b) 392 c) 375
 d) 372 e) None of these
- 96) $256.33 - 14.32 = ? - 55.44$
 a) 189.57 b) 168.57 c) 175.67
 d) 182.57 e) None of these
- 97) $(562 - 754) \div 6 = ? \div (-5)$
 a) -120 b) 120 c) -160
 d) 160 e) None of these
- 98) $7\% \text{ of } 8000 - 12\% \text{ of } 550 = ?$
 a) 474 b) 497 c) 494
 d) 449 e) None of these
- 99) $(3 \times 4)^2 \times (3 \times 6) \div (9 \times 5) = ?$
 a) 57.6 b) 59.6 c) 53.2
 d) 51.2 e) None of these
- 100) $\sqrt{15 \times 163 \div 5 - 89} = ?$
 a) 15 b) 25 c) 10
 d) 20 e) None of these
- 101) $(35.2 \times 15 \times 4) \div 12 + 20 = (?)^2$
 a) $(14)^2$ b) $\sqrt{14}$ c) $4\sqrt{14}$
 d) $-\sqrt{14}$ e) None of these
- 102) $23 \times 15 \div 25 + 48.2 = -35$
 a) 97 b) 98 c) 95
 d) 96 e) None of these
- 103) $27/152 \times 8/9 \div 45/19 = ?$
 a) $1/19$ b) $1/15$ c) $2/15$
 d) $2/19$ e) None of these
- 104) $(18)^2 - (4)^3 - \sqrt{1225} = (?)^2$
 a) 225 b) $(15)^2$ c) 25
 d) $\sqrt{15}$ e) None of these
- 105) $0.2 \times 8.6 \div 0.4 \times 45 = ?$
 a) 193.5 b) 153.9 c) 197.5
 d) 157.9 e) None of these
- 106) $63 \times 4 \div 8 + 4.5 = (?)^2$
 a) $\sqrt{6}$ b) $(36)^2$ c) 36
 d) $(6)^2$ e) None of these
- 107) $1\frac{1}{4} \times 3\frac{1}{5} \times 223 = ?$
 a) 895 b) 892 c) 893
 d) 891 e) None of these

- 108) $?\%$ of $400 - (7)^2 = 159$
 a) 55 b) 53 c) 51
 d) 52 e) None of these
- 109) $552 - 258 + 122 = ? + (12)^2$
 a) 278 b) 272 c) 275
 d) 271 e) None of these
- 110) $12.98 - 35.23 + 58.22 = ?$
 a) 35.97 b) 32.18 c) 37.59
 d) 33.11 e) None of these
- 111) $?\%$ of $450 + 12 = 138$
 a) 28 b) 38 c) 25
 d) $33\frac{1}{3}$ e) None of these
- 112) $(15 \times 6) - (12 \times 4) - 18 = ? \div 3$
 a) 73 b) 72 c) 74
 d) 76 e) None of these
- 113) $33 \times 15 + 25 + 13 = 256 + ?$
 a) 276 b) 275 c) 279
 d) 277 e) None of these
- 114) $\frac{4}{11}$ of $2\frac{1}{16}$ of $280 = ?$
 a) 212 b) 218 c) 210
 d) 205 e) None of these
- 115) $5^5 \times (25)^3 \div 625 = (5)^?$
 a) 6 b) 9 c) 8
 d) 5 e) None of these
- 116) $666 \div (2.4 \times ?) = 185$
 a) 1.5 b) 2.5 c) 0.5
 d) 5 e) None of these
- 117) $656 \times 753 = ?$
 a) 723692 b) 727398 c) 710308
 d) 493968 e) None of these
- 118) $3/8 \times 4/7 \times ? = 5376$
 a) 30912 b) 25144 c) 24808
 d) 25088 e) None of these
- 119) $[(9)^3 \times (?^2)] \div 21 = 1701$
 a) 6 b) 3 c) 11
 d) 4 e) None of these
- 120) $897214 - 336 - 46521 - 1249 - 632176 = ?$
 a) 217832 b) 216725 c) 216932
 d) 315950 e) None of these
- 121) $666 \times 66 \times 6 = ?$
 a) 263836 b) 263736 c) 263376
 d) 236836 e) None of these
- 122) $\sqrt{11881} \times \sqrt{?} = 10137$
 a) 8649 b) 9216 c) 8281
 d) 9409 e) None of these
- 123) $3.5 \times 2.4 \times ? = 42$
 a) 1.5 b) 0.2 c) 0.8
 d) 1.2 e) None of these
- 124) $\sqrt[3]{804357} = ?$
 a) 98 b) 89 c) 96
 d) 93 e) None of these
- 125) $\sqrt{?} \div 16 \times 24 = 186$
 a) 14884 b) 13924 c) 15376
 d) 15876 e) None of these
- 126) $(?)^2 \div (0.04)^2 \times 5.6 = 117740$
 a) 33.64 b) 6.2 c) 38.44
 d) 5.4 e) None of these
- 127) $9418 + ? + 3174 + 2257 = 19425$
 a) 4047 b) 4136 c) 4129
 d) 4576 e) None of these
- 128) $9865 + ? + 3174 + 2257 = 19425$
 a) 4047 b) 4136 c) 4129
 d) 4092 e) None of these
- 129) $9/? \times 33824 = 63$
 a) 4228 b) 4832 c) 2416
 d) 8456 e) None of these
- 130) 64% of $? - 96\%$ of $1120 = 499.2$
 a) 2600 b) 2540 c) 2460
 d) 2280 e) None of these
- 131) $(99)^2 - (?)^2 + (38)^2 = 8436$
 a) 57 b) 53 c) 49
 d) 61 e) None of these
- 132) $12.36 \times 18.15 + 21.52 = ?$
 a) 250.3036 b) 209.1448 c) 249.454
 d) 245.854 e) None of these
- 133) $(98764 + 89881 + 99763 + 66342) \div$
 $(1186 + ? + 1040 + 1870) = 55$
 a) 2354 b) 2368 c) 2254
 d) 2404 e) None of these
- 134) $(64)^2 \div \sqrt[3]{32768} = ?$
 a) 128 b) 132 c) 142
 d) 104 e) None of these
- 135) $\frac{21 \times 14 - 34}{12.4 + 5.6 - 15.5} = ?$
 a) 95 b) 100 c) 110
 d) 106 e) None of these
- 136) $0.09 \times 6.8 \times ? = 2.142$
 a) 2.5 b) 4.4 c) 3.5
 d) 2.4 e) None of these

137) $(19)^{12} \times (19)^3 \div (19)^4 = (19)^?$

- a) 24 b) 8 c) 6
d) 12 e) None of these

138) $11\frac{1}{7} + 2\frac{5}{8} = ?$

- a) $110\frac{1}{7}$ b) $13\frac{45}{56}$ c) $96\frac{3}{8}$
d) $13\frac{43}{56}$ e) None of these

139) 680% of ? = 290360

- a) 43800 b) 42700 c) 41900
d) 42500 e) None of these

140) ?% of $920 \times 7.5 = 2898$

- a) 42 b) 36 c) 45
d) 48 e) None of these

141) $34 \times 57 \times 2 = ? \times 3$

- a) 1229 b) 1292 c) 1282
d) 1299 e) None of these

142) $31/72 \times 21/62 \times 12/49 = ?$

- a) $1/26$ b) $3/28$ c) $1/18$
d) $1/28$ e) None of these

143) ?% of 2500 = 480

- a) 19.2 b) 15.2 c) 21.2
d) 29.2 e) None of these

144) $1\frac{2}{3} + 2\frac{1}{3} + 1\frac{5}{6} = ?$

- a) $5\frac{5}{6}$ b) $4\frac{5}{6}$ c) $3\frac{5}{6}$
d) $6\frac{5}{6}$ e) None of these

145) $5/11$ th of 55% of 1000 = ?

- a) 255 b) 260 c) 250
d) 265 e) None of these

146) $\sqrt{122 - (29 \times 2)} = (?)^2$

- a) -8 b) $\sqrt{64}$ c) 8
d) 64 e) None of these

147) $6565 - 2222 + 1515 - 2828 = ?$

- a) 3003 b) 3060 c) 3300
d) 3000 e) None of these

148) $123.56 + 567.11 - 345.95 = ?$

- a) 354.52 b) 349.77 c) 334.27
d) 344.72 e) None of these

149) $3248 \div 232 = 2 \times ?$

- a) 8 b) 6 c) 7
d) 9 e) None of these

150) $4444 \div 44 \div 10 = ?$

- a) 10 b) 11 c) 1.10
d) 101 e) None of these

151) $100 \times (10)^8 \div 1000 = (10)^? \times 10000$

- a) 3 b) 4 c) 10
d) 7 e) None of these

152) $-55 - 34 - 61 - 12 + 454 = ?$

- a) 229 b) 282 c) 292
d) 228 e) None of these

153) $15 \times \sqrt{3249} + 400 = ?$

- a) 1525 b) 1225 c) 1245
d) 1255 e) None of these

154) 15% of 350 + 45% of 4450 = ?

- a) 2045 b) 2050 c) 2005
d) 2055 e) None of these

155) $3/5$ th of $1/4$ th of 5600 = ?

- a) 440 b) 430 c) 410
d) 425 e) None of these

156) $12/23 + 15/23 - 9/46 = ?$

- a) $43/46$ b) $45/46$ c) $41/46$
d) $47/46$ e) None of these

157) $(15)^2 + (13)^2 - (21)^2 = ?$

- a) -47 b) 47 c) -49
d) 49 e) None of these

158) $45313 + 24412 - 31799 = ?$

- a) 37996 b) 37926 c) 37962
d) 39726 e) None of these

159) $15000 \div 15 \div 5 = ? \times 5$

- a) 45 b) 20 c) 40
d) 25 e) None of these

160) $4554 \div \sqrt{7} = 23 \times 9$

- a) 454 b) 474 c) 488
d) 478 e) None of these

161) $450 \div 8 + 125.35 = ?$

- a) 188.6 b) 171.6 c) 181.6
d) 177.6 e) None of these

162) 45% of ? = 1782

- a) 3690 b) 3960 c) 3990
d) 3660 e) None of these

163) $(\sqrt{7})^6 \times (49)^3 \div 7^4 = (7)^?$

- a) 5 b) 3 c) 2
d) 6 e) None of these

164) $(863 - 447) \div ? = 26 \times 4$

- a) 4 b) 6 c) 12
d) 8 e) None of these

165) $\sqrt{21 \times 6 + 13 \times 5 + 170} = ?$

- a) $\sqrt{19}$ b) 361 c) $(361)^2$
 d) $\sqrt{325}$ e) None of these

166) $\frac{2}{3}$ rd of $\frac{3}{5}$ th of $\frac{4}{5}$ th of $? = 1112$

- a) 3575 b) 3475 c) 3425
 d) 3215 e) None of these

167) $7398 \div 54 \times 12 = ?$

- a) 1444 b) 1644 c) 1584
 d) 1704 e) None of these

168) $63.04 + 12.25 + 36.004 = ?$

- a) 114.33 b) 114.68 c) 114.2904
 d) 114.94 e) None of these

169) $\frac{1287}{1645} \times \frac{235}{572} \div 3 \frac{15}{16} = ?$

- a) $\frac{4}{49}$ b) $\frac{1}{28}$ c) $\frac{4}{7}$
 d) $\frac{1}{7}$ e) None of these

170) $(7856 + 3214 + 6318) \div ? = 38.64$

- a) 450 b) 540 c) 480
 d) 520 e) None of these

171) $\sqrt[3]{512} + \sqrt[3]{1331} = \sqrt{?}$

- a) 19 b) 225 c) 17
 d) 289 e) None of these

172) $(0.64 \times 2.5 \times 3.2) \div 0.8 = ?$

- a) 0.64 b) 5.8 c) 5.08
 d) 6.04 e) None of these

173) $[(12)^2 + (?)^2] \div 125 = 3.2$

- a) 18 b) 14 c) 8
 d) 16 e) None of these

174) $37 \times 7 \times 3 = ?$

- a) 757 b) 777 c) 769
 d) 779 e) None of these

175) 75% of $280 - 24\%$ of $45 = ?$

- a) 194.5 b) 195 c) 199.2
 d) 198 e) None of these

176) $\frac{12.5 \times 16 + 25}{6.4 \times 5.5 - 10.2} = ?$

- a) 4.5 b) 12 c) 9
 d) 6 e) None of these

177) $789613 - 658748 - 124563 = ?$

- a) 6302 b) 6230 c) 6320
 d) 6032 e) None of these

178) $(7)^3 + (5)^2 + (4)^3 \div (16)^2 = ?$

- a) 1.6875 b) 468.25 c) 368.0625
 d) 368.25 e) None of these

179) $\sqrt{64 \times 49} \div (4)^2 \times 12 = ?$

- a) 56 b) 49 c) 63
 d) 42 e) None of these

180) $7845 - 3621 + 1487 = ?$

- a) 5711 b) 2737 c) 11422
 d) 12953 e) None of these

181) $59 \times 28 - 1020 = ?$

- a) 514 b) 554 c) 612
 d) 642 e) None of these

182) $38969 - 24376 = ? + 4224$

- a) 10639 b) 9884 c) 11369
 d) 10963 e) None of these

183) $(255 \times 2000) \div 5000 \times 25 = ?$

- a) 4.08 b) 2550 c) 4590
 d) 255 e) None of these

184) $5040 \div ?\% \text{ of } 840 = 8$

- a) 45 b) 60 c) 75
 d) 50 e) None of these

185) $288 \times 64 + 150 \div 25 = ?$

- a) 743.28 b) 2465.28 c) 18432
 d) 18438 e) None of these

186) $8476 \div ? \times 45 + 32 = 5900$

- a) 56 b) 45 c) 65
 d) 64 e) None of these

187) $3654 \div \sqrt{1764} + ? = (10)^2$

- a) 16 b) 13 c) 9
 d) 12 e) None of these

188) $744 \div ? \times 0.4 = 9.3$

- a) 32 b) 35 c) 36
 d) 28 e) None of these

189) $598 \div 2.5 = ?\% \text{ of } 650$

- a) 34.4 b) 35.6 c) 36.8
 d) 36.4 e) None of these

190) $(284 + 114 + 324) \div (652 - 548 - 64) = ?$

- a) 15.25 b) 16.75 c) 20.5
 d) 18.05 e) None of these

191) $66 \div 6 \div 0.2 = ?$

- a) 2.2 b) 1.8 c) 45
 d) 54 e) None of these

192) $(49)^3 \times 7 \div (343)^2 = (7)^?$

- a) 3 b) 2 c) 1
 d) 0 e) None of these

193) $532 \times \sqrt{7} = 266 \times 28$

- a) $(196)^2$ b) 14 c) $\sqrt{14}$
 d) 196 e) None of these

194) $5 \times ? = 3504 \div 4$

- a) 157.4 b) 175.2 c) 175.4
d) 157.2 e) None of these

195) $55\% \text{ of } 904 - \% \text{ of } 860 = 351$

- a) 24 b) 15 c) 17
d) 21 e) None of these

196) $34658 - 21541 - 2054 = ?$

- a) 11063 b) 13063 c) 10136
d) 13106 e) None of these

197) $137 \times 111 - 11214 = ?$

- a) 3393 b) 3939 c) 3399
d) 3993 e) None of these

198) $6/11 \div 168/473 = ?$

- a) $1\frac{13}{28}$ b) $1\frac{15}{28}$ c) $2\frac{1}{28}$

- d) $3\frac{5}{28}$ e) None of these

199) $? \div 24 \times 18 = 7155$

- a) 9030 b) 9840 c) 9260
d) 9450 e) None of these

200) $8.5 \times 13.4 \times 16.2 = ?$

- a) 1485.18 b) 1584.81 c) 1845.81
d) 1854.18 e) None of these

201) $412.12 + 326.26 + 102.02 = ?$

- a) 840.4 b) 804.8 c) 840.8
d) 804.4 e) None of these

202) $27.5\% \text{ of } 650 = ?$

- a) 182.25 b) 172.25 c) 178.75
d) 187.75 e) None of these

203) $6696 \div (32 \times 15.5) = ?$

- a) 14.5 b) 13.5 c) 12.5
d) 10.5 e) None of these

204) $16\% \text{ of } 832 + ? = 245$

- a) 188.18 b) 111.88 c) 118.88
d) 188.11 e) None of these

205) $\frac{5}{6} + \frac{1}{66} + 2\frac{1}{3} = ?$

- a) $3\frac{2}{11}$ b) $2\frac{1}{11}$ c) $3\frac{2}{33}$

- d) $2\frac{2}{33}$ e) None of these

206) $\% \text{ of } 540 - 8.9 = 55.9$

- a) 10 b) 14 c) 12
d) 16 e) None of these

207) $6429 + 1736 = ? + 6430$

- a) 1735 b) 1753 c) 1375
d) 1537 e) None of these

208) $1/2 \text{ of } 3/5 \text{ of } 4/9 \text{ of } 8040 = ?$

- a) 1027 b) 1270 c) 1720
d) 1072 e) None of these

209) $8888 + 5555 = ? \times 25$

- a) 527.77 b) 527.27 c) 572.27
d) 577.72 e) None of these

210) $(14)^2 - (3)^3 - \sqrt{256} - 32 = (?)^2$

- a) $(11)^2$ b) $\sqrt{11}$ c) 121
d) $(121)^2$ e) None of these

211) $(48.5 \times 16 \times 4) \div 8 - 356 = ?$

- a) 42 b) 34 c) 58
d) 46 e) None of these

212) $\sqrt{5 \times 444 \div 4 + 63} - 42 = ?$

- a) 196 b) 24 c) 14
d) 576 e) None of these

213) $\sqrt{?} + 16 = \sqrt{2704}$

- a) $\sqrt{36}$ b) 6 c) 1296
d) 36 e) None of these

214) $6280 \div 25 = ?$

- a) 251.2 b) 256.2 c) 232.2
d) 215.2 e) None of these

215) $53612 + 5463 - 2648 = ? \times 30$

- a) 1808.9 b) 1088.9 c) 1890.9
d) 1880.9 e) None of these

216) $54671 - 14456 - 33466 = ?$

- a) 6794 b) 6745 c) 6748
d) 6744 e) None of these

217) $5220 \div ? \times 15 = 2175$

- a) 36 b) 32 c) 34
d) 38 e) None of these

218) $7777 \div 35 = ?$

- a) 242.2 b) 225.2 c) 228.2
d) 222.2 e) None of these

219) $\sqrt{1764} + 22 = \sqrt{?}$

- a) 8 b) 4096 c) 64
d) $\sqrt{64}$ e) None of these

220) $12.5 \times 3.2 \times 8.8 = ?$

- a) 358 b) 355 c) 354
d) 356 e) None of these

221) $(16)^3 \times 4^3 \div 1024 = (4)^?$

- a) 3 b) 4 c) 5
d) 6 e) None of these

222) $84 \div 12 \div 0.8 = ?$

- a) 7.75 b) 9.85 c) 8.75
d) 10.15 e) None of these

223) $22\% \text{ of } ? + 166.64 = 340$

- a) 782 b) 786 c) 784
d) 792 e) None of these

224) $5670 \div (28 \times 13.5) = ?$

- a) 12 b) 15 c) 18
d) 14 e) None of these

225) $(26.3 \times 12 \times 20) \div 3 + 125 = ?$

- a) 2229 b) 2292 c) 2223
d) 2227 e) None of these

226) $? \times \sqrt{144} = 311 \times 24$

- a) 622 b) 624 c) 633
d) 634 e) None of these

227) $45\% \text{ of } 816 - 23\% \text{ of } ? = 240.7$

- a) 525 b) 540 c) 550
d) 560 e) None of these

228) $18.2\% \text{ of } 890 = ?$

- a) 168.91 b) 163.98 c) 165.91
d) 161.98 e) None of these

229) $122 \times 252 - 12234 = ?$

- a) 18150 b) 18510 c) 18520
d) 18501 e) None of these

230) $3/4 \text{ of } 1/2 \text{ of } 2/5 \text{ of } 5020 = ?$

- a) 758 b) 752 c) 757
d) 753 e) None of these

231) $24 \times 22 = ? \div 8$

- a) 4242 b) 4422 c) 4224
d) 4222 e) None of these

232) $566.91 + 551.34 + 114.98 = ?$

- a) 1233.23 b) 1222.33 c) 1223.45
d) 1235.88 e) None of these

233) $9/13 \div 162/325 = ?$

- a) $1\frac{5}{18}$ b) $2\frac{7}{18}$ c) $1\frac{7}{17}$
d) $1\frac{7}{18}$ e) None of these

234) $\frac{4}{5} + \frac{5}{25} + 1\frac{2}{5} = ?$

- a) $2\frac{3}{5}$ b) $1\frac{2}{5}$ c) $3\frac{2}{5}$
d) $2\frac{2}{5}$ e) None of these

235) $(16)^2 - 5^3 + \sqrt{169} = (?)^2$

- a) $(12)^2$ b) 144 c) $\sqrt{12}$
d) $(144)^2$ e) None of these

236) $2525 + 3355 = 32 \times ?$

- a) 185.53 b) 181.56 c) 183.75
d) 189.22 e) None of these

237) $\sqrt{6 \times 342 \div 3 + 52} - 7 = ?$

- a) 27 b) 729 c) -27
d) -729 e) None of these

238) $4561 + 3254 = 5422 + ?$

- a) 2339 b) 2933 c) 2398
d) 2393 e) None of these

239) $25631 + 1442 - 3229 = ? \times 50$

- a) 467.88 b) 479.44 c) 473.33
d) 474.55 e) None of these

240) $18\% \text{ of } 680 - ? = 68.7$

- a) 51.3 b) 53.7 c) 55.4
d) 57.2 e) None of these

241) $\sqrt{342 + 463 + 420} = ?$

- a) 43 b) 45 c) 33
d) 35 e) None of these

242) $561.33 + 455.71 + 672.13 = ?$

- a) 1686.45 b) 1683.29 c) 1688.34
d) 1689.17 e) None of these

243) $(48 + 97) \times (1.32 + 1.08) = ?$

- a) 345 b) 348 c) 342
d) 346 e) None of these

244) $32341 + 52187 + 12234 - 72438 = ?$

- a) 24324 b) 24326 c) 24322
d) 24325 e) None of these

245) $\sqrt{324} + \sqrt{3136} = ? - (7)^2$

- a) 127 b) 125 c) 122
d) 123 e) None of these

246) $28 \times 447 - 942 = ?$

- a) 11573 b) 11577 c) 11574
d) 11575 e) None of these

247) $0.8 \times 888 \div 80 \times 18 = ?$

- a) 158.33 b) 159.84 c) 156.87
d) 154.78 e) None of these

248) $1/5\text{th of } 3/4\text{th of } 2/5\text{th of } 2550 = ?$

- a) 153 b) 156 c) 158
d) 155 e) None of these

249) $87.93 + 21.55 + 45.21 = ?$

- a) 154.69 b) 155.87 c) 153.64
d) 152.73 e) None of these

250) $7776 \times (216)^3 \div (36)^2 = (6)^? \times 36$

- a) 6 b) 8 c) 10
d) 9 e) None of these

251) $5544 + 6767 - 3443 = ?$

- a) 8860 b) 8888 c) 8866
d) 8868 e) None of these

252) $21/25 \times 75/56 \times 32/33 = ?$

- a) $3\frac{1}{11}$ b) $1\frac{3}{11}$ c) $1\frac{1}{11}$
 d) $2\frac{1}{11}$ e) None of these

253) $5/7 + 2/3 - 2/7 = ?$

- a) $1\frac{1}{21}$ b) $1\frac{2}{21}$ c) $2\frac{1}{21}$
 d) $2\frac{2}{21}$ e) None of these

254) $\sqrt[3]{1728} = ? - 7$

- a) 17 b) 18 c) 21
 d) 22 e) None of these

255) 42% of 12% of $1/4$ th of 15000 = ?

- a) 188 b) 182 c) 185
 d) 187 e) None of these

256) 12% of 150 + 62% of 800 = ?

- a) 516 b) 518 c) 515
 d) 514 e) None of these

257) $4/5$ th of 38% of 600 - 15.4 = ?

- a) 169 b) 163 c) 165
 d) 168 e) None of these

258) $60 \times 8/15 = ?$

- a) 34 b) 36 c) 38
 d) 33 e) None of these

259) $72 \times 4.3 \times 0.8 = ?$

- a) 245.34 b) 247.68 c) 249.24
 d) 243.56 e) None of these

260) $7.14 + 3.29 + 9.43 + 8.19 = ?$

- a) 27.03 b) 28.05 c) 25.05
 d) 29.06 e) None of these

261) $56835 + 12683 + 38934 = ?$

- a) 83085 b) 83083 c) 83088
 d) 83086 e) None of these

262) $4244 \div 4 + 4554 \div 9 = ?$

- a) 1567 b) 1569 c) 1563
 d) 1568 e) None of these

263) $\sqrt{20164} = ?$

- a) 143 b) 145 c) 142
 d) 144 e) None of these

264) $15 \times 28 \times ? = 5040$

- a) 12 b) 18 c) 14
 d) 16 e) None of these

265) $(18)^2 + (14)^2 - (21)^2 = ?$

- a) 78 b) 75 c) 77
 d) 73 e) None of these

266) $\sqrt{676} + \sqrt{1024} = ?$

- a) 58 b) 56 c) 52
 d) 54 e) None of these

267) $434.23 + 21.56 + 63.89 = ?$

- a) 515.75 b) 519.68 c) 517.53
 d) 511.74 e) None of these

268) $6552 \div 28 + 343 = ?$

- a) 579 b) 575 c) 573
 d) 577 e) None of these

269) $34 \times 255 \times 15 = ? + 14431$

- a) 115619 b) 115671 c) 115617
 d) 115691 e) None of these

270) $0.01 \times 111 + 10.4 - 6.3 = ?$

- a) 6.32 b) 4.24 c) 5.21
 d) 9.11 e) None of these

271) $\sqrt{522 + 35 - 28} = ?$

- a) 33 b) 35 c) 27
 d) 23 e) None of these

272) 18% of 255 + ?% of 600 = 255.9

- a) 35 b) 38 c) 45
 d) 44 e) None of these

273) $1/5$ th of $1/3$ rd of $3/4$ th of 15000 = ?

- a) 745 b) 755 c) 740
 d) 750 e) None of these

274) $[(155 \div 2) + 83.5] \div 5 = ? \div 2.5$

- a) 70.4 b) 80.5 c) 83.4
 d) 73.5 e) None of these

275) $5642.36 + 237.35 + 522.93 = ? + 3990.35$

- a) 2418.76 b) 2416.45 c) 2415.29
 d) 2411.23 e) None of these

276) $(19)^2 + (22)^2 - (16)^2 = ?$

- a) 583 b) 589 c) 588
 d) 587 e) None of these

277) $2\frac{1}{2} + 2\frac{1}{3} + 1\frac{2}{5} = ?$

- a) $6\frac{11}{30}$ b) $4\frac{7}{30}$ c) $3\frac{7}{30}$
 d) $6\frac{13}{30}$ e) None of these

278) 25% of $\sqrt{3844} = ?$

- a) 16.8 b) 15.5 c) 18.3
 d) 13.7 e) None of these

279) $(28 \times 13) + (15 \times 9) = ?$

- a) 491 b) 494 c) 497
 d) 499 e) None of these

280) $5^6 \times (25)^2 \div 625 = 5^?$

- a) 8 b) 5 c) 6
 d) 9 e) None of these

281) 26% of 550 - ? = 128

- a) 15 b) 18 c) 13
 d) 19 e) None of these

282) $11/16 \times 80/99 \times 12/25 = ?$

- a) $7/13$ b) $4/13$ c) $7/15$
 d) $4/15$ e) None of these

283) $-19 - 31 - 43 - 20 + 344 = ?$

- a) 239 b) 233 c) 231
 d) 235 e) None of these

284) $12 \times \sqrt{4225} + 212 = ?$

- a) 993 b) 995 c) 991
 d) 999 e) None of these

285) $78121 + 14112 - 53798 = ?$

- a) 38438 b) 38433 c) 38435
 d) 38432 e) None of these

286) $\frac{16 \times 426}{24\% \text{ of } 200} = ?$

- a) 145 b) 143 c) 147
 d) 146 e) None of these

287) $(10503 \div 3) - (7869 \div 3) = ?$

- a) 873 b) 877 c) 878
 d) 876 e) None of these

288) $7/15 + 12 + 2/3 = ?$

- a) $13\frac{4}{15}$ b) $12\frac{2}{15}$ c) $12\frac{4}{15}$
 d) $13\frac{2}{15}$ e) None of these

289) $3535 \div 25 = ?$

- a) 145.3 b) 143.7 c) 144.6
 d) 141.4 e) None of these

290) $\sqrt{155 + 63 - 31 + 254} = ?$

- a) 27 b) -23 c) 441
 d) -21 e) None of these

Direction : What will come in place of the question mark (?) in the following questions?

291. $25 + 125 \times 2 = ?$

- a) 375 b) 30 c) 6250
 d) 152 e) None of these

292. $150\% \text{ of } 15 + 75\% \text{ of } 75 = ?$

- a) 78.75 b) 75.75 c) 135
 d) 155 e) None of these

293. $\left[\left((2^4)^{\frac{1}{2}} \right)^7 \right] = 256$

- a) 8 b) 6 c) 4
 d) 1 e) None of these

294. $\sqrt[4]{10000} = 100^?$

- a) $1/2$ b) 2 c) $1/4$
 d) $1/8$ e) None of these

295. $-20 \times 40 \times \frac{1}{5} \div \frac{30}{25} = ?$

- a) $-\frac{20}{3}$ b) $\frac{400}{3}$ c) $-\frac{400}{3}$
 d) -192 e) None of these

296. $-84 \times 29 + 365 = ?$

- a) 2436 b) 2801 c) -2801
 d) -2071 e) None of these

297. $(21.69)^2 - \sqrt{324} = ?$

- a) 440.4615 b) 425.4561 c) 452.4561
 d) 442.4651 e) None of these

298. $(800 \div 64) \times (1296 \div 36) = ?$

- a) 420 b) 460 c) 500
 d) 540 e) None of these

299. $(42 \times 229) \div (9261)^{1/3} = ?$

- a) 452 b) 448 c) 458
 d) 456 e) None of these

300. $(35423 + 7164 + 41720) - (317 \times 89) = ?$

- a) 28213 b) 84307 c) 50694
 d) 54096 e) None of these

301. $(9\% \text{ of } 386) \times (6.5\% \text{ of } 144) = ?$

- a) 340.1664 b) 325.1664 c) 333.3333
 d) 328.0065 e) None of these

302. $4500 \times ? = 3375$

- a) $2/5$ b) $3/4$ c) $1/4$
 d) $3/5$ e) None of these

303. $4 + 4.44 + 44.4 + 4.04 + 444 = ?$

- a) 500.88 b) 577.2 c) 495.22
 d) 472.88 e) None of these

304. $\sqrt[3]{?} = (36 \times 24) \div 9$

- a) 884736 b) 804036 c) 854734
 d) 814736 e) None of these

305. $(43\% \text{ of } 2750) - (38\% \text{ of } 2990) = ?$

- a) 49.3 b) 44.7 c) 43.6
 d) 46.3 e) None of these

306. $\frac{4}{7} \times 2\frac{4}{5} \div \frac{2}{5} = ?$

- a) $6/7$ b) 8 c) $2/5$
 d) 4 e) None of these

307. $(19.89)^2 - \sqrt{676} = ?$

- a) 369.6121 b) 395.2161 c) 359.2161
 d) 395.6161 e) None of these

308. $-56 \times 61 \div 89 = ?$

- a) -3237 b) 3327 c) -3327
 d) 3416 e) None of these

309. $3625 \times ? = 1450$

- a) $\frac{1}{3}$ b) $\frac{2}{5}$ c) $\frac{1}{5}$
 d) $\frac{4}{5}$ e) None of these

310. $(0.85\% \text{ of } 405) + (2.25\% \text{ of } 550) = ?$

- a) 16.7175 b) 15.7150 c) 13.8175
 d) 14.7125 e) None of these

311. $916 \times ? \times 3 = 214344$

- a) 78 b) 68 c) 84
 d) 66 e) None of these

312. $(54679 + 5982 + 32614) - (312 \times 69) = ?$

- a) 71528 b) 77147 c) 71747
 d) 61757 e) None of these

313. $\sqrt{?} = (88 \times 42) \div 16$

- a) 3696 b) 39660 c) 43163
 d) 53361 e) None of these

314. $(42\% \text{ of } 4240) - (39\% \text{ of } 3854) = ?$

- a) 277.20 b) 277.74 c) 3283.86
 d) 3284.40 e) None of these

315. $41 + 4.11 + 0.41 + 411 + 41.11 = ?$

- a) 456.63 b) 487.63 c) 456.52
 d) 479.63 e) None of these

316. $185 \times 12 \div 30 + 66 \div 12 = ?$

- a) 89.5 b) 79.5 c) 11.67
 d) 12.33 e) None of these

317. $66\% \text{ of } 250 + 42\% \text{ of } ? = 312$

- a) 540 b) 650 c) 360
 d) 350 e) None of these

318. $18^{6.5} \times 18^{12.25} = 18^?$

- a) 18.75 b) 18.25 c) 6.25
 d) 6.75 e) None of these

319. $\frac{5}{17} \times \frac{102}{120} \times 520 = ?$

- a) 260 b) 140 c) 135
 d) 145 e) None of these

320. $2.8 \times 4.5 - 1.71 \div 1.9 = ?$

- a) 5.73 b) 12.7 c) 11.7
 d) 6.86 e) None of these

321. $\frac{3.5 \times 1.4}{0.7} = ?$

- a) 7.1 b) 3.5 c) 0.7
 d) 2.4 e) None of these

322. $\left(\frac{7}{15} + \frac{2}{5}\right) \times (?) = \frac{1}{20}$

- a) $\frac{3}{52}$ b) $\frac{5}{51}$ c) $\frac{3}{62}$
 d) $\frac{5}{68}$ e) None of these

323. $(9)^3 \times (6)^2 \div (3)^3 = ?$

- a) 1012 b) 948 c) 972
 d) 984 e) None of these

324. $\sqrt[3]{148877} = ?$

- a) 49 b) 43 c) 59
 d) 53 e) None of these

325. $738 + (?) + 674 - 961 = 52$

- a) 258 b) -399 c) 348
 d) -403 e) None of these

326. $7824 \div ? \times 66 = 3168$

- a) 172 b) 169 c) 163
 d) 154 e) None of these

327. $36\% \text{ of } 450 - ?\% \text{ of } 340 = 66.80$

- a) 28 b) 32 c) 24
 d) 18 e) None of these

328. $\frac{21^{5.36}}{21^{3.47}} = 21^{(?)}$

- a) 8.83 b) 1.54 c) 9.32
 d) 1.89 e) None of these

329. $(444 \times 44 \times 4) \div ? = 111$

- a) 352 b) 748 c) 704
 d) 396 e) None of these

330. $9647 + 8521 + 6310 + 8817 = ?$

- a) 33925 b) 33295 c) 32359
 d) 32395 e) None of these

331. $\sqrt{7225} \times \frac{1}{5} + (35)^2 = ?$

- a) 1236 b) 1248 c) 1256
 d) 1242 e) None of these

332. $14.15 + 3.8 \times 7.4 = ?$

- a) 40.36 b) 42.36 c) 132.83
 d) 134.56 e) None of these

333. $\sqrt{?} \times \sqrt{484} = 1034$

- a) 2025 b) 2209 c) 2401
 d) 2304 e) None of these

334. $(? - 2763) \div 86 \times 13 = 208$

- a) 4152 b) 4096 c) 4134
 d) 4139 e) None of these

335. $569 \times 748 = ?$

- a) 425432 b) 424474 c) 425043
 d) 426360 e) None of these

336. $\frac{9}{136} \times ? + 456 = 663$

- a) 3536 b) 3264 c) 2856
 d) 3672 e) None of these

337. $\sqrt{7} \div 4 \times 56 = 672$
 a) 2116 b) 2401 c) 2601
 d) 2304 e) None of these
338. $\frac{532}{648} \times \frac{432}{588} = ?$
 a) $2/21$ b) $38/63$ c) $21/64$
 d) $19/21$ e) None of these
339. $(58)^2 - (39)^2 + (24)^2 = ?$
 a) 2419 b) 1267 c) 3940
 d) 4309 e) None of these
340. $3927 + 5526 \div 12.5 = ?$
 a) 4369.24 b) 756.24 c) 4369.08
 d) 750.24 e) None of these
341. $0.789 + ? \times 2.5 = 4.269$
 a) 1.932 b) 1.50 c) 2.392
 d) 2.50 e) None of these
342. $\frac{18 \times 14 - 6 \times 8}{488 \div 4 - 20} = ?$
 a) 2 b) $1/2$ c) $3/4$
 d) 4 e) None of these
343. $6\frac{6}{7} - 5\frac{2}{5} = ?$
 a) $10\frac{1}{5}$ b) $1\frac{16}{35}$ c) $1\frac{23}{35}$
 d) $7\frac{2}{7}$ e) None of these
344. $7857 + 6336 = ? - 5530$
 a) 19723 b) 19732 c) 19826
 d) 19612 e) None of these
345. $715632 - 631104 - 9874 - 999 = ?$
 a) 73565 b) 73556 c) 73655
 d) 73665 e) None of these
346. $2^{0.2} \times 64 \times 8^{1.3} \times 4^{0.2} = 8^?$
 a) 2.7 b) 2.5 c) 3.7
 d) 3.2 e) None of these
347. $83\% \text{ of } 6242 \times 12\% \text{ of } 225 = ?$
 a) 146286.42 b) 134263.18 c) 139883.22
 d) 1562218.23 e) None of these
348. $1\frac{1}{8} + 1\frac{6}{7} + 3\frac{3}{5} = ?$
 a) $8\frac{121}{140}$ b) $6\frac{163}{280}$ c) $9\frac{197}{280}$
 d) $7\frac{117}{140}$ e) None of these
349. $? \div 25 \div 12 = 248.76$
 a) 74628 b) 497.52 c) 62452
 d) 870.66 e) None of these
350. $(73)^3 = ?$
 a) 365127 b) 298627 c) 305867
 d) 389017 e) None of these
351. $\sqrt[3]{804357} = ?$
 a) 93 b) 76 c) 83
 d) 86 e) None of these
352. $8^{1.3} \times 4^{0.6} \times 16^{0.2} = 2^?$
 a) 2.1 b) 3.8 c) 5.9
 d) 4.7 e) None of these
353. $73\% \text{ of } 8523 + 32\% \text{ of } 6245 = ?$
 a) 8042.21 b) 8136.28 c) 8625.35
 d) 8220.19 e) None of these
354. $(3^?)^2 = 19683$
 a) 6 b) 9 c) 4
 d) 8 e) None of these
355. $8226 \div 15 \div 5 = ?$
 a) 2156 b) 109.68 c) 185.56
 d) 2742 e) None of these
356. $5.43 + 4.35 + 0.45 + 45.34 + 534 = ?$
 a) 597.27 b) 589.57 c) 596.87
 d) 569.67 e) None of these
357. $38.5 \div 5.25 \times 12 - 4 = ?$
 a) 84 b) 48 c) 40
 d) 75 e) None of these
358. $538 \times ? = 3497$
 a) 5.75 b) 3.25 c) 6.50
 d) 5.65 e) None of these
359. $(?)^2 + (79)^2 = (172)^2 - (88)^2 - 8203$
 a) 96 b) 89 c) 83
 d) 81 e) None of these
360. $8.905 + 5.675 - 4.632 + 1.280 = ?$
 a) 11.228 b) 9.428 c) 12.822
 d) 10.282 e) None of these
361. $[(222)^2 \div 48 \times 16] \div 24 = ?$
 a) 654.25 b) 624 c) 684.5
 d) 678.75 e) None of these
362. $-92 \times 42 + 158 = ?$
 a) 3864 b) -3706 c) -4022
 d) 18400 e) None of these
363. $3251 + 587 + 369 - ? = 3007$
 a) 1250 b) 1300 c) 1375
 d) 1200 e) None of these
364. $(52\% \text{ of } 3543) - (38\% \text{ of } 2759) = ?$
 a) 653.36 b) 993.24 c) 821.64
 d) 793.94 e) None of these

365. $416 \times ? \times 8 = 59904$

- a) 17 b) 12 c) 21
d) 15 e) None of these

366. $[(24)^2 + (36)^2] \div 25 = ?$

- a) 70.75 b) 74.88 c) 78.68
d) 73.28 e) None of these

367. $(6214 + 3689 + 1476) - (5213 + 1365 + 2038) = ?$

- a) 2843 b) 2753 c) 2763
d) 2853 e) None of these

368. $1/13 \times 3237 + 3/14 \times 5362 = ?$

- a) 1346 b) 1368 c) 1355
d) 1398 e) None of these

369. $(48)^2 \div 12 + \sqrt{7} = 248$

- a) 3035 b) 3025 c) 3249
d) 3136 e) None of these

370. $39\% \text{ of } 760 - 29\% \text{ of } 550 = ?$

- a) 144.3 b) 156.5 c) 136.9
d) 130.6 e) None of these

371. $\sqrt{3249} + (75)^2 + \sqrt{?} = 5745$

- a) 3721 b) 4096 c) 3481
d) 3969 e) None of these

372. $1\frac{13}{32} + 3\frac{3}{4} - 1\frac{11}{14} = ?$

- a) $2\frac{83}{224}$ b) $3\frac{85}{224}$ c) $2\frac{81}{224}$
d) $1\frac{83}{224}$ e) None of these

373. $(65.5 \times 15.5) \times 100 = ?$

- a) 108125 b) 102615 c) 101525
d) 105125 e) None of these

374. $410.25 + 369.46 \div 0.052 = ?$

- a) 7515.25 b) 7818.18 c) 7616.35
d) 7525.05 e) None of these

375. $1/315 \times (172063 + 85922) = ?$

- a) 715 b) 819 c) 829
d) 756 e) None of these

376. $(656 \times 231) \div 41 = ?$

- a) 3090 b) 3696 c) 3515
d) 3828 e) None of these

377. $\frac{1020}{1170} \times \frac{1326}{1615} = ?$

- a) $\frac{68}{95}$ b) $1\frac{27}{68}$ c) $\frac{58}{95}$
d) $1\frac{37}{58}$ e) None of these

378. $\sqrt[3]{551368} = ?$

- a) 78 b) 84 c) 86
d) 80 e) None of these

379. $(0.9\% \text{ of } 650 \div 0.4\% \text{ of } 750) + 368.25 = ?$

- a) 380.15 b) 370.10 c) 369.25
d) 375.20 e) None of these

380. $\sqrt{10201} - \sqrt{3136} = ?$

- a) 45 b) 40 c) 35
d) 30 e) None of these

381. $4 + 4.44 + 0.4 + 44.04 + 444 = ?$

- a) 497.24 b) 487.66 c) 496.88
d) 469.88 e) None of these

382. $[(130)^2 \div 25 \times 15] \div 30 = ?$

- a) 352 b) 314 c) 326
d) 338 e) None of these

383. $38 + 16 \times 0.8 = ?$

- a) 43.2 b) 50.8 c) 44.8
d) 1.9 e) None of these

384. $(?)^2 + (65)^2 = (160)^2 - (90)^2 - 7191$

- a) 75 b) 77 c) 79
d) 81 e) None of these

385. $398 \times ? \times 7 = 47362$

- a) 15 b) 13 c) 17
d) 19 e) None of these

386. $1485 \times ? = 594$

- a) $2/5$ b) $3/4$ c) $3/5$
d) $5/6$ e) None of these

387. $2116 + 692 - ? = 1111$

- a) 1667 b) 1677 c) 1687
d) 1697 e) None of these

388. $6.896 + 3.753 - 2.005 + 1.004 = ?$

- a) 9.486 b) 9.648 c) 9.864
d) 9.846 e) None of these

389. $(6.5\% \text{ of } 375) - (0.85\% \text{ of } 230) = ?$

- a) 23.42 b) 24.24 c) 21.64
d) 25.76 e) None of these

390. $(13)^{54} \times (13)^{-51} = ?$

- a) 2197 b) 39 c) 169
d) 130 e) None of these

391. $\frac{2}{7} \times \frac{5}{6} \times \frac{3}{8} \times ? = 790$

- a) 8848 b) 8246 c) 8484
d) 8868 e) None of these

392. $968 \times 445 \div ? = 17230.4$

- a) 60 b) 40 c) 25
d) 35 e) None of these

393. $(0.05 \times 6.25) \div 2.5 = ?$
 a) 0.105 b) 0.95 c) 0.115
 d) 1.25 e) None of these
394. $(41)^2 + (38)^2 \times (0.15)^2 = ?$
 a) 3125.0225 b) 1713.49 c) 3125.15
 d) 59204.0225 e) None of these
395. $1728 \div \sqrt[3]{262144} \times ? - 288 = 4491$
 a) 148 b) 156 c) 173
 d) 177 e) None of these
396. $[(58)^2 \times (48)^2] \div ? = 2152.96$
 a) 60 b) 2500 c) 50
 d) 3600 e) None of these
397. $7432 \div 92.9 \times 18.5 = ?$
 a) 1450 b) 1600 c) 1480
 d) 1560 e) None of these
398. $99 \times 21 - \sqrt[3]{7} = 1968$
 a) 1367631 b) 111 c) 1366731
 d) 1367 e) None of these
399. $9634 \times 3/8 \div ? = 28.902$
 a) 115 b) 95 c) 110
 d) 120 e) None of these
400. $19.99 \times 9.9 + 99.9 = ?$
 a) 129.79 b) 297.801 c) 1009
 d) 296.91 e) None of these
401. $(47 \times 588) \div (28 \times 120) = ?$
 a) 6.284 b) 7.625 c) 8.225
 d) 8.285 e) None of these
402. $45\% \text{ of } 224 \times \% \text{ of } 120 = 8104.32$
 a) 67 b) 62 c) 59
 d) 71 e) None of these
403. $\sqrt{7921} \times 51 + 374 = (?)^3$
 a) 16 b) 19 c) 15
 d) 21 e) None of these
404. $6573 \div 21 \times (0.2)^2 = ?$
 a) 7825 b) 62.6 c) 1565
 d) 12.52 e) None of these
405. $74156 - ? - 321 - 20 + 520 = 69894$
 a) 3451 b) 4441 c) 5401
 d) 4531 e) None of these
406. $18.5 \times 22.5 \times ? = 5161.5$
 a) 13.5 b) 11.4 c) 16.5
 d) 12.4 e) None of these
407. $(9)^2 + (12)^2 = (?)^2$
 a) 21 b) 15 c) 25
 d) 18 e) None of these
408. $(23)^3 = ?$
 a) 12167 b) 17576 c) 2197
 d) 5832 e) None of these
409. $15 \div 5 \div 5 = ?$
 a) 1 b) 15 c) 0
 d) 3 e) None of these
410. $18^{1.3} \times 18^{4.4} = 18^?$
 a) 3.1 b) 4 c) 5.7
 d) 6 e) None of these
411. $8^{9.4} \times 4^{12.8} \times 64^{8.1} = 16^?$
 a) 41.8 b) 16.2 c) 18.4
 d) 25.6 e) None of these
412. $\frac{8 \div ? \times 3.5}{4 \times 5 \div 2} = 0.7$
 a) 2 b) 6 c) 10
 d) 3 e) None of these
413. $4\frac{16}{17} \times 1\frac{11}{16} \div \frac{7}{38} = ?$
 a) $12\frac{3}{17}$ b) $45\frac{9}{34}$ c) $12\frac{21}{34}$
 d) $36\frac{8}{17}$ e) None of these
414. $(15)^2 + (10)^2 + (6)^2 = (?)^2$
 a) 130321 b) 361 c) 103041
 d) 17 e) None of these
415. $12\% \text{ of } 840 \times 0.25\% \text{ of } 148 = ?$
 a) 37.296 b) 101.17 c) 68.432
 d) 97.046 e) None of these
416. $(12)^{20} \times (12)^5 = ?$
 a) $(12)^{100}$ b) $(12)^4$ c) $(12)^{25}$
 d) $(12)^{15}$ e) None of these
417. $34.667 - 15.597 - 8.491 - 0.548 = ?$
 a) 14.403 b) 10.031 c) 18.301
 d) 21.043 e) None of these
418. $[(140)^2 \div 70 \times 16] \div 8 = 14 \times ?$
 a) 38 b) 22 c) 55
 d) 40 e) None of these
419. $456 + 24 \times 0.75 - 12 = ?$
 a) 462 b) 672 c) 348
 d) 624 e) None of these
420. $\sqrt{\sqrt{17956} + \sqrt{24025}} = ?$
 a) 256 b) 289 c) 155
 d) 19 e) None of these
421. $\% \text{ of } 398 + 31\% \text{ of } 993 = 403.35$
 a) 46 b) 24 c) 18
 d) 32 e) None of these

422. $7\frac{1}{2} + 3\frac{2}{3} + 3\frac{5}{6} = ?$

- a) 17 b) 16.75 c) 15
d) 14.25 e) None of these

423. $\{(56)^2 + (44)^2\} \div ? = 16$

- a) 329 b) 335 c) 343
d) 317 e) None of these

424. $(15.6\% \text{ of } 1296) - (10.8\% \text{ of } 870) = ?$

- a) 109.218 b) 108.216 c) 107.214
d) 106.212 e) None of these

425. $(55.25)^2 - 637.5625 = ?$

- a) 25.25 b) 625 c) 2415
d) 1375 e) None of these

426. $[(144)^2 \div 48 \times 18] \div 36 = \sqrt{?}$

- a) 23328 b) 36 c) 216
d) 46656 e) None of these

427. $(27)^{18} \div (27)^3 = ?$

- a) $(27)^{54}$ b) $(27)^{21}$ c) $(27)^{15}$
d) $(27)^6$ e) None of these

428. $5\frac{1}{4} + 6\frac{2}{3} + 7\frac{1}{6} = ?$

- a) 19.5 b) $19\frac{11}{12}$ c) $19\frac{1}{12}$
d) 19 e) None of these

429. $4895 + 364 \times 0.75 - 49 = ?$

- a) 5119 b) 3895 c) 3907
d) 5210 e) None of these

430. $24336 \div ? = 78 \times 24$

- a) 6 b) 13 c) 11
d) 17 e) None of these

431. $156 + 16 \times 1.5 - 21 = ?$

- a) 126 b) 258 c) 237
d) 159 e) None of these

432. $(98)^{45} \times (98)^{-35} = ?$

- a) 98 b) $(98)^2$ c) $(98)^{-5}$
d) $(98)^{10}$ e) None of these

433. $434.43 + 43.34 + 3.44 + 4 + 0.33 = ?$

- a) 421.45 b) 455.54 c) 485.54
d) 447.45 e) None of these

434. $(23.6\% \text{ of } 1254) - (16.6\% \text{ of } 834) = ?$

- a) 159.5 b) 157.5 c) 155.5
d) 153.5 e) None of these

435. $(78.95)^2 - (43.35)^2 = ?$

- a) 4353.88 b) 4305 c) 4235.78
d) 4148 e) None of these

436. $\frac{1}{2} + \frac{1}{4} + \frac{3}{4} + \frac{2}{3} = ?$

- a) $2\frac{1}{5}$ b) $\frac{1}{16}$ c) $2\frac{1}{16}$

d) $2\frac{1}{6}$

- e) None of these

437. $(4)^? = 1024$

- a) 1 b) 2 c) 3
d) 4 e) None of these

438. $22.5 \times 0.05 = ?$

- a) 11.25 b) 1.125 c) 22.55
d) 112.5 e) None of these

439. $999 + 111 \times 0.5 = ?$

- a) 555 b) 500 c) 1054.5
d) 1110.5 e) None of these

440. $40\% \text{ of } 250 = 50\% \text{ of } ?$

- a) 200 b) 100 c) 150
d) 400 e) None of these

441. $\{(52)^2 + (45)^2\} \div ? = 8$

- a) 611.345 b) 487.225 c) 591.125
d) 372.425 e) None of these

442. $72\% \text{ of } 752.6 = 48\% \text{ of } ?$

- a) 1128.9 b) 1332.7 c) 1536.5
d) 1742.3 e) None of these

443. $? \% \text{ of } 658 + 40\% \text{ of } 845 = 568.3$

- a) 46 b) 42 c) 38
d) 35 e) None of these

444. $(15.5\% \text{ of } 1245) - (12.5\% \text{ of } 1458) = ?$

- a) 10.725 b) 10.735 c) 10.745
d) 10.755 e) None of these

445. $(64)^4 \div (8)^5 = ?$

- a) $(8)^{12}$ b) $(8)^8$ c) $(8)^4$
d) $(8)^2$ e) None of these

446. $(99.75)^2 - 2250.0625 = ?$

- a) 9900.625 b) 7700 c) 6545.625
d) 8875 e) None of these

447. $(12.25)^2 - \sqrt{625} = ?$

- a) 235.1625 b) 125.0625 c) 375.2625
d) 465.3625 e) None of these

448. $383 \times 38 \times 3.8 = ?$

- a) 58305.8 b) 57305.6 c) 56305.4
d) 55305.2 e) None of these

449. $43.231 - 12.779 - 6.542 - 0.669 = ?$

- a) 27.341 b) 25.242 c) 23.241
d) 21.342 e) None of these

450. $572 + 38 \times 0.50 - 16 = ?$
 a) 289 b) 305 c) 448
 d) 565 e) None of these
451. $8451 + 793 + 620 - ? = 6065 + 713$
 a) 4912 b) 4712 c) 4312
 d) 4512 e) None of these
452. $81 + 20 \times 0.75 - 9 = ?$
 a) 97 b) 107 c) 87
 d) 77 e) None of these
453. $811.81 + 88.11 + 0.88 + 1.88 + 8 = ?$
 a) 910.68 b) 912.56 c) 904.88
 d) 902.67 e) None of these
454. $22440 \div \sqrt{?} = 34 \times 12$
 a) 55 b) 3136 c) 65
 d) 3025 e) None of these
455. $3402 \div ? = \sqrt{26244}$
 a) 162 b) 21 c) 441
 d) 42 e) None of these
456. $\sqrt{571536} \div 42 \times ? = 5850$
 a) 420 b) 240 c) 315
 d) 325 e) None of these
457. $(34)^{56} \times (34)^{-53} = ?$
 a) 39304 b) 1156 c) 170504
 d) 102 e) None of these
458. $378.35 + 478 \div 12.5 = ?$
 a) 508.268 b) 416.59 c) 425.28
 d) 68.508 e) None of these
459. $(550\% \text{ of } 250) \div 275 = ?$
 a) 15 b) 1.5 c) 0.5
 d) 25 e) None of these
460. $334.41 + 47.26 + 1.25 + 5 + 0.66 = ?$
 a) 411.24 b) 396.15 c) 388.58
 d) 376.85 e) None of these
461. $74844 \div ? = 54 \times 63$
 a) 34 b) 42 c) 22
 d) 54 e) None of these
462. $(21.35)^2 + (12.25)^2 = ?$
 a) 171.4125 b) 605.885 c) 604.085
 d) 463.8125 e) None of these
463. $124 + 56 \times 1.5 - 12 = ?$
 a) -1890 b) 252 c) 230
 d) 196 e) None of these
464. $\sqrt[3]{1092727} = ?$
 a) 108 b) 99 c) 97
 d) 107 e) None of these
465. $(46351 - 36418 - 4505) \div ? = 1357$
 a) 4 b) 6 c) 3
 d) 2 e) None of these
466. $74 + 12 \times 0.75 - 6 = ?$
 a) 72 b) 67 c) 62
 d) 77 e) None of these
467. $2432 \div ? = \sqrt{23104}$
 a) 12 b) 14 c) 18
 d) 16 e) None of these
468. $8888 + 848 + 88 - ? = 7337 + 737$
 a) 1750 b) 1650 c) 1550
 d) 1450 e) None of these
469. $515.15 - 15.51 - 1.51 - 5.11 - 1.11 = ?$
 a) 491.91 b) 419.91 c) 499.19
 d) 411.19 e) None of these
470. $(?)^2 + (123)^2 = (246)^2 - (99)^2 - 2462$
 a) 184 b) 186 c) 182
 d) 180 e) None of these
471. $414 \times ? \times 7 = 127512$
 a) 36 b) 40 c) 44
 d) 48 e) None of these
472. $[(84)^2 \div 28 \times 12] \div 24 = 7 \times ?$
 a) 15 b) 17 c) 19
 d) 21 e) None of these
473. $(7.9\% \text{ of } 134) - (3.4\% \text{ of } 79) = ?$
 a) 8.1 b) 7.8 c) 8.6
 d) 7.3 e) None of these
474. $(3)^8 \times (3)^4 = ?$
 a) $(27)^3$ b) $(729)^2$ c) $(27)^5$
 d) $(729)^3$ e) None of these
475. $24.424 + 5.656 + 1.131 + 0.089 = ?$
 a) 31.003 b) 31.3 c) 31.03
 d) 31.0003 e) None of these
476. $\sqrt[3]{?} = (756 \times 67) \div 804$
 a) 195112 b) 250047 c) 226981
 d) 274625 e) None of these
477. $0.3 + 3 + 3.33 + 3.3 + 3.03 + 333 = ?$
 a) 375.66 b) 345.99 c) 375.93
 d) 355.96 e) None of these
478. $(73425 - 33267 - 22418 - 17650) \times \sqrt{11025} = ?$
 a) 10165 b) 9785 c) 8370
 d) 9450 e) None of these
479. $-76 \times 33 + 221 = ?$
 a) -2287 b) -19304 c) 2287
 d) 19304 e) None of these

480. $(34.12)^2 - \sqrt{7396} = ?$
 a) 1080.1744 b) 1078.1474 c) 1078.1744
 d) 1080.1474 e) None of these
481. $66^2 - 34^2 = ?$
 a) 3600 b) 3200 c) 2146
 d) 2466 e) None of these
482. 185% of 400 + 35% of 240 = ?% of 1648
 a) 85 b) 75 c) 125
 d) 50 e) None of these
483. $\frac{3}{8}$ of $\frac{4}{9}$ of 1092 = ?
 a) 182 b) 728 c) 364
 d) 218 e) None of these
484. $12.28 \times 1.5 - 36 \div 2.4 = ?$
 a) 3.24 b) 7.325 c) 6.42
 d) 4.32 e) None of these
485. $\sqrt{24^4} + 224 = ? \times 20^2$
 a) 20 b) 4 c) 2
 d) 16 e) None of these
486. $2.8 \times 1.5 + 8\% \text{ of } 250 = ?$
 a) 24.2 b) 24.02 c) 242.2
 d) 2.42 e) None of these
487. $3\frac{2}{7} - 2\frac{1}{14} - 1\frac{1}{14} - 1\frac{1}{7} = ? + 2\frac{1}{13}$
 a) $1\frac{1}{7}$ b) $1\frac{2}{7}$ c) $\frac{1}{7}$
 d) $\frac{3}{7}$ e) None of these
488. $\frac{3}{8}$ of $\frac{4}{5}$ of $\frac{2}{3}$ of 730 = ?
 a) 86 b) 146 c) 156
 d) 93 e) None of these
489. $8^7 \times 2^6 \div 8^{2.4} = 8^?$
 a) 10.6 b) 9.6 c) 8.6
 d) 6.6 e) None of these
490. 160% of 250 + ? = 120% of 400
 a) 160 b) 40 c) 80
 d) 120 e) None of these
491. $23^{2.8} \times 23^{7.2} \times 23^{3.6} = 23^?$
 a) 13.6 b) 12.6 c) 12.8
 d) 13.8 e) None of these
492. $3895 - 1563 + 1089 = ?$
 a) 3321 b) 3527 c) 3329
 d) 3429 e) None of these
493. $45 \times 390 \div 26 = ?$
 a) 645 b) 675 c) 765
 d) 745 e) None of these
494. $2.2 \times 5.6 + 17.8 = ?$
 a) 30.12 b) 30.012 c) 31.12
 d) 31.012 e) None of these
495. $\frac{3}{5}$ of $\frac{5}{9}$ of $\frac{2}{7}$ of 9450 = ?
 a) 960 b) 480 c) 450
 d) 900 e) None of these
496. $\sqrt{?} + \sqrt{961} = \sqrt{2025}$
 a) 28 b) 24 c) 169
 d) 256 e) None of these
497. $358.085 + 42.91 + 25.55 = ?$
 a) 425.565 b) 426.545 c) 426.555
 d) 425.545 e) None of these
498. 140% of 56 + 56% of 140 = ?
 a) 78.4 b) 158.6 c) 156.6
 d) 87.4 e) None of these
499. $3\frac{3}{8} + 2\frac{1}{4} - 4\frac{1}{8} = ?$
 a) 1 b) $\frac{1}{2}$ c) $1\frac{1}{2}$
 d) $1\frac{3}{4}$ e) None of these
500. 65% of 240 + ?% of 150 = 210
 a) 45 b) 46 c) 32
 d) 36 e) None of these
501. $58.621 - 13.829 - 7.302 - 1.214 = ?$
 a) 37.281 b) 35.272 c) 36.276
 d) 31.254 e) None of these
502. ?% of 450 + 46% of 285 = 257.1
 a) 34 b) 32 c) 21
 d) 28 e) None of these
503. $(81)^4 \div (9)^5 = ?$
 a) 6561 b) 729 c) 81
 d) 9 e) None of these
504. $618 + 62 \times 0.50 - 29 = ?$
 a) 625 b) 660 c) 640
 d) 655 e) None of these
505. $282 \times 82 \times 0.2 = ?$
 a) 4624.8 b) 4734.6 c) 4604.4
 d) 4324.2 e) None of these
506. $1\frac{1}{4} + 1\frac{5}{9} \times 1\frac{5}{8} \div 6\frac{1}{2} = ?$
 a) 17 b) 27 c) 42
 d) 18 e) None of these
507. If $289 = 17^{\frac{1}{5}x}$, then x = ?
 a) 16 b) 8 c) 32
 d) $\frac{2}{5}$ e) None of these

508. $0.01 \times 0.1 - 0.001 \div 10 + 0.01 = ?$

- a) 0.01009 b) 0.0101 c) 0.19
d) 0.109 e) 0.0109

509. If $x\%$ of 500 = $y\%$ of 300 and $x\%$ of $y\%$ of 200 = 60, then $x = ?$

- a) $10\sqrt{2}$ b) $20\sqrt{2}$ c) $15\sqrt{2}$
d) $30\sqrt{2}$ e) None of these

510. $\frac{16 \times 32}{9 \times 27 \times 81} = ?$

- a) $\left(\frac{2}{3}\right)^{12}$ b) $\left(\frac{2}{3}\right)^{11}$ c) $\left(\frac{2}{3}\right)^{13}$
d) $\left(\frac{2}{3}\right)^9$ e) None of these

511. $\sqrt[3]{1331} = ?$

- a) 27 b) 21 c) 17
d) 9 e) None of these

512. 18.5% of 220 + 12.4% of 680 = ?

- a) 132.05 b) 125.02 c) 142.07
d) 118.07 e) None of these

513. $188.21 - 27.54 - 11.93 = ?$

- a) 139.74 b) 126.64 c) 148.74
d) 184.64 e) None of these

514. $1268 \div 8 \div 2 = ?$

- a) 71.75 b) 317 c) 268
d) 79.25 e) None of these

515. $8^{1.1} \times 4^{2.7} \times 2^{3.3} = 2^?$

- a) 7.1 b) 14 c) 268
d) 79.25 e) None of these

516. 12% of 450 + $?\%$ of 200 = 83

- a) 13.5 b) 16 c) 14.5
d) 15 e) None of these

517. $4854 \div ? \div 4 = 48.54$

- a) 25 b) 16 c) 32
d) 15 e) None of these

518. $14.4 \times 16.5 \times 8 = ?$

- a) 1908.0 b) 1900.8 c) 1912.4
d) 1924.8 e) None of these

519. $726.34 + 888.12 - ? = 1001.88$

- a) 621.58 b) 602.64 c) 654.54
d) 618.78 e) None of these

520. $\sqrt{2809} = ?$

- a) 43 b) 47 c) 57
d) 53 e) None of these

521. $23 \times 15 - 60 + ? \div 31 = 292$

- a) 218 b) 186 c) 217
d) 201 e) None of these

522. $\sqrt{5^2 \times 14 - 6 \times 7 + (4)^2} = 18$

- a) 1 b) 3 c) 4
d) 5 e) None of these

523. $3\frac{3}{4} + 4\frac{2}{5} - 3\frac{1}{8} = ?$

- a) $4\frac{1}{40}$ b) $5\frac{1}{40}$ c) $6\frac{1}{40}$
d) $5\frac{3}{40}$ e) None of these

524. 15% of 578 + 22.5% of 644 = ?

- a) 231.4 b) 233.6 c) 231.8
d) 231.6 e) None of these

525. $\frac{343 \times 49}{216 \times 16 \times 81} = ?$

- a) $\frac{7^5}{6^7}$ b) $\frac{7^5}{6^8}$ c) $\frac{7^6}{6^7}$
d) $\frac{7^4}{6^8}$ e) None of these

526. 40% of 265 + 35% of 180 = 50% of ?

- a) 338 b) 84.5 c) 253.5
d) 169 e) None of these

527. $460 \times 15 - 5 \times 20 = ?$

- a) 92000 b) 4600 c) 137800
d) 7000 e) None of these

528. $5163 - 4018 + 3209 = ?$

- a) 4174 b) 4264 c) 4804
d) 4354 e) None of these

529. $4\frac{1}{5} \times 3\frac{1}{3} + ? = 20\%$ of 120

- a) $10\frac{1}{15}$ b) 10 c) 5
d) 15 e) None of these

530. $4848 \div 24 \times 11 - 222 = ?$

- a) 200 b) 2444 c) 2000

- d) $115\frac{3}{8}$ e) None of these

531. $7960 + 2956 - 8050 + 4028 = ?$

- a) 6984 b) 6884 c) 6894
d) 6954 e) None of these

532. $25 \times 3.25 + 50.4 \div 24 = ?$

- a) 84.50 b) 83.35 c) 83.53
d) 82.45 e) None of these

533. $350\% \text{ of } ? \div 50 + 248 = 591$

- a) 4900 b) 4890 c) 4850
d) 4950 e) None of these

534. $1/2 \text{ of } 3842 + 15\% \text{ of } ? = 2449$

- a) 3520 b) 3250 c) 3350
d) 3540 e) None of these

535. $(833.25 - 384.45) \div 24 = ?$

- a) 1.87 b) 20.1 c) 2.01
d) 18.7 e) None of these

536. $\sqrt{360 - 225 \times 2} + 379 = ?$

- a) 17 b) 19 c) 279
d) 289 e) None of these

537. $9^3 \times 81^2 \div 27^3 = (3)^?$

- a) 3 b) 4 c) 5
d) 6 e) None of these

538. $572 \div 26 \times 12 - 200 = (2)^?$

- a) 5 b) 6 c) 7
d) 8 e) None of these

539. $4\frac{1}{2} - 2\frac{5}{6} = ? - 1\frac{7}{12}$

- a) $3\frac{1}{4}$ b) $3\frac{5}{12}$ c) $2\frac{7}{12}$
d) $3\frac{3}{4}$ e) None of these

540. $36\% \text{ of } 245 - 40\% \text{ of } 210 = 10 - ?$

- a) 4.2 b) 6.8 c) 4.9
d) 5.6 e) None of these

541. $(8792 - 4136) \div ? = 145.5$

- a) 38 b) 32 c) 42
d) 36 e) None of these

542. $6561 \div (10.8 \times 2.5) \div 3 = ?$

- a) 27 b) 54 c) 72
d) 81 e) None of these

543. $7365 + (5.4)^2 + \sqrt{7} = 7437.16$

- a) 1894 b) 1681 c) 1764
d) 2025 e) None of these

544. $3/10 \times 40\% \text{ of } ? = 78$

- a) 650 b) 720 c) 680
d) 620 e) None of these

545. $125\% \text{ of } 3060 - 85\% \text{ of } ? = 408$

- a) 3890 b) 3940 c) 4020
d) 4015 e) None of these

546. $475 + 64\% \text{ of } 950 = 900 + ?$

- a) 183 b) 233 c) 1983
d) 1863 e) None of these

547. $(0.064) \times (0.4)^7 = (0.4)^? \times (0.0256)^2$

- a) 17 b) 2 c) 18
d) 3 e) None of these

548. $534.596 + 61.472 - 496.708 = ? + 27.271$

- a) 126.631 b) 62.069 c) 72.089
d) 132.788 e) None of these

549. $16 \times 12 - 672 \div 21 = ? - 211$

- a) 381 b) 347 c) 372
d) 311 e) None of these

550. $(\sqrt{5} - 2)^2 = ? - \sqrt{80}$

- a) $4\sqrt{5} + 4$ b) $4\sqrt{5}$ c) $9 - 4\sqrt{5}$
d) 9 e) None of these

551. $98 \div 14 \times 49 - 294 = (?)^2$

- a) -14 b) $\sqrt{7}$ c) -7
d) 196 e) None of these

552. $(2 \times 3)^3 \div (4 \times 9)^2 \times (27 \times 8)^2 = (6)^?$

- a) 5 b) 6 c) 3
d) 8 e) None of these

553. $454.58 - 376.89 + 121.45 - 95.42 = ?$

- a) 102.22 b) 103.72 c) 91.72
d) 92.32 e) None of these

554. $\sqrt{576} \div (4)^2 \times 7.4 + (7)^3 - 231 = ?$

- a) 123.9 b) 121.1 c) 111.1
d) 122.1 e) None of these

555. $(\sqrt{3} - 2)^2 = ? - \sqrt{12} - \sqrt{36}$

- a) $13 - 2\sqrt{3}$ b) 13 c) $13 - 4\sqrt{3}$
d) 1 e) None of these

556. $(0.7)^2 \div (0.343) = (0.7)^? \div (0.49)^3$

- a) 3 b) 6 c) 7
d) 4 e) None of these

557. $1575 \div 21 \div 5 = \sqrt{?} \times 6$

- a) 6.25 b) $\sqrt{2.5}$ c) 62.5
d) 2.5 e) None of these

558. $5.6 \times 12.5 \div 0.5 + 15.5 = ? + 49.5$

- a) 106 b) 110 c) 120
d) 156 e) None of these

559. $(\sqrt{7} - 1)^2 = 8 - \sqrt{28}$

- a) 6 b) 4 c) 9
d) 7 e) None of these

560. $32.5 \times 26\% \text{ of } 450 \div 3 - 745.5 = ?$

- a) 542 b) 522 c) 632
d) 612 e) None of these

561. $\frac{9 \div 2 \times 27 \div 9}{18 \div 7.5 \times 5 \div 4} = ?$

- a) 4.5 b) 5.7 c) 2.5
d) 6.8 e) None of these

562. ?% of 280 + 18% of 550 = 143.8

- a) 11 b) 18 c) 21
d) 16 e) None of these

563. $8.88 \times 88.8 \times 88 = ?$

- a) 68301.142 b) 79391.642 c) 65365.824
d) 76218.414 e) None of these

564. $\sqrt{\sqrt{2500} + \sqrt{961}} = (?)^2$

- a) 81 b) 3 c) 6561
d) 9 e) None of these

565. $1\frac{4}{7} + 1\frac{3}{5} + 1\frac{1}{3} = ?$

- a) $5\frac{47}{105}$ b) $4\frac{48}{105}$ c) $4\frac{53}{105}$
d) $5\frac{43}{105}$ e) None of these

566. $15 : 66 :: 185 : ?$

- a) 824 b) 644 c) 604
d) 814 e) None of these

567. $64^{12} \div 4^{15} = 64^?$

- a) 9 b) 3 c) 12
d) 7 e) None of these

568. 14% of 80 + ?% of 90 = 31.9

- a) 16 b) 23 c) 18
d) 26 e) None of these

569. $\sqrt{97344} = ?$

- a) 302 b) 322 c) 292
d) 342 e) None of these

570. $3\frac{6}{7} - 6\frac{1}{4} + 5\frac{1}{3} = ?$

- a) $1\frac{65}{84}$ b) $8\frac{1}{84}$ c) $2\frac{79}{84}$
d) $5\frac{47}{84}$ e) None of these

571. $348 \div 29 \times 15 + 156 = (?)^3 + 120$

- a) 12 b) 6 c) 35
d) 9 e) None of these

572. $(4 \times 4)^3 \div (512 \div 8)^4 \times (32 \times 8)^4 = (2 \times 2)^{?+4}$

- a) 4 b) 5 c) 6
d) 7 e) None of these

573. $(2\sqrt{392} - 21) + (\sqrt{8} - 7)^2 = (?)^2$

- a) 4 b) -4 c) 12
d) 2 e) 6

574. $1\frac{1}{4} + 1\frac{1}{6} - 1\frac{1}{8} = ? + 1\frac{1}{12}$

- a) 5/24 b) 7/24 c) 5/12
d) 7/12 e) None of these

575. 76% of 1285 = 35% of 1256 + ?

- a) 543 b) 537 c) 547
d) 533 e) None of these

576. $3/19$ of 30% of 3420 = $(?)^2 \times 2$

- a) $(81)^2$ b) 7 c) 9
d) 81 e) 49

577. $1898 \div 73 \times 72 = (?)^2 \times 13$

- a) -256 b) 256 c) 12
d) 144 e) -16

578. $\sqrt{7^2 \times 24 \times 2 - (11)^3} + 3 = ?$

- a) 42 b) 1024 c) 1764
d) $(1024)^2$ e) 32

579. $(0.81)^2 \div (0.729)^3 \times (0.9)^2 = (0.9)^{?-3}$

- a) 6 b) 2 c) 4
d) 0 e) None of these

580. 65% of $\sqrt{3136} \times 5 = ? + 154$

- a) 56 b) 28 c) 35
d) 32 e) None of these

581. $(21)^2 - 3717 \div 59 = ? \times 8$

- a) 43.75 b) 42.25 c) 45.75
d) 47.25 e) None of these

582. $2\frac{1}{8} - 1\frac{1}{16} = ? + 1\frac{1}{32} - 1\frac{9}{64}$

- a) $2\frac{9}{32}$ b) $1\frac{9}{64}$ c) $2\frac{5}{32}$
d) $1\frac{11}{64}$ e) None of these

583. $(0.64)^4 \div (0.512)^3 \times (0.8)^4 = (0.8)^{?+3}$

- a) 5 b) 12 c) 0
d) 6 e) None of these

584. 34.5% of 1800 + 12.4% of 1500 = $(?)^3 + 78$

- a) 27 b) 9 c) 81
d) 162 e) None of these

585. $\sqrt{15^2 \times 12 \div 9 - 125 + 21} = ?$

- a) 18 b) 24 c) 196
d) 56 e) 14

586. $5907 - 1296 \div 144 = ? \times 8$

- a) 726.75 b) 767.25 c) 737.25
d) 676.75 e) None of these

587. $5\frac{3}{4} - 1\frac{1}{2} - 1\frac{1}{6} = (?)^2 + \frac{1}{12}$

- a) $\frac{1}{3}$ b) $\sqrt{3}$ c) 3
d) 9 e) -3

588. $(0.216)^2 \div (0.36)^2 \times (0.6)^5 = (0.6)^{? - 2}$

- a) 11 b) 5 c) 7
d) 9 e) None of these

589. $56.5\% \text{ of } 1220 - 26.2\% \text{ of } 1100 = (?)^2 + 301.1$

- a) $\sqrt{20}$ b) 200 c) $\sqrt{10}$
d) 100 e) -10

590. $\sqrt{4^2 \times 8 + (9)^2} - 40 = ?$

- a) 169 b) 13 c) 14
d) 196 e) None of these

591. $\sqrt{97344} = ?$

- a) 302 b) 322 c) 292
d) 342 e) None of these

592. $15 : 66 :: 185 : ?$

- a) 824 b) 644 c) 604
d) 814 e) None of these

593. $64^{12} \div 4^{18} = 64^?$

- a) 9 b) 3 c) 12
d) 7 e) None of these

594. $3\frac{6}{7} - 6\frac{1}{4} + 5\frac{1}{3} = ?$

- a) $1\frac{65}{84}$ b) $8\frac{1}{84}$ c) $2\frac{79}{84}$
d) $5\frac{47}{84}$ e) None of these

595. $14\% \text{ of } 80 + ?\% \text{ of } 90 = 31.9$

- a) 16 b) 23 c) 18
d) 26 e) None of these

596. $3463 \times 295 - 18611 = ? + 5883$

- a) 997091 b) 997071 c) 997090
d) 999070 e) None of these

597. $(23.1)^2 + (48.6)^2 - (39.8)^2 = ? + 1147.69$

- a) $(13.6)^2$ b) $\sqrt{12.8}$ c) 163.84
d) 12.8 e) None of these

598. $\frac{28}{65} \times \frac{195}{308} \div \frac{39}{44} + \frac{5}{26} = ?$

- a) $\frac{1}{3}$ b) 0.75 c) $1\frac{1}{2}$

- d) $\frac{1}{2}$ e) None of these

599. $\left[(3\sqrt{8} + \sqrt{8}) \times (8\sqrt{8} + 7\sqrt{8}) \right] - 98 = ?$

- a) $2\sqrt{8}$ b) $8\sqrt{8}$ c) 382
d) 386 e) None of these

600. $\sqrt{11449} \times \sqrt{6241} - (54)^2 = \sqrt{?} + (74)^2$

- a) 3844 b) 3721 c) 3481
d) 3638 e) None of these

601. $[(3024 \div 189)^{1/2} + (684 \div 19)^2] = (?)^2 + 459$

- a) -27 b) -29 c) 31
d) 841 e) 1089

602. $4.4 \text{ times } 5/16 \text{ of } 30\% \text{ of } 216 = ?$

- a) 81.9 b) 83.7 c) 87.3
d) 89.1 e) None of these

603. $(0.0729 \div 0.1)^3 \div (0.081 \times 10)^5 \times (0.3 \times 3)^5 = (0.9)^{?+3}$

- a) 1 b) 2 c) 4
d) 7 e) None of these

604. $(\sqrt{?}\% \text{ of } \sqrt{1764} \times 5) = 149.8 - 112$

- a) $\sqrt{18}$ b) 18 c) 324
d) 24 e) None of these

605. $(27)^2 \times 6 \div 9 + (7)^3 + 71 = (?)^3 - 431$

- a) 11 b) $(13)^3$ c) 13
d) $(11)^2$ e) None of these

606. $4003 \times 77 - 21015 = ? \times 116$

- a) 2477 b) 2478 c) 2467
d) 2476 e) None of these

607. $\left[(5\sqrt{7} + \sqrt{7}) \times (4\sqrt{7} + 8\sqrt{7}) \right] - (19)^2 = ?$

- a) 143 b) $72\sqrt{7}$ c) 134
d) $70\sqrt{7}$ e) None of these

608. $(4444 \div 40) + (645 \div 25) + (3991 \div 26) = ?$

- a) 280.4 b) 290.4 c) 295.4
d) 285.4 e) None of these

609. $\sqrt{33124} \times \sqrt{2601} - (83)^2 = (?)^2 + (37)^2$

- a) 37 b) 33 c) 34
d) 28 e) None of these

610. $5\frac{17}{37} \times 4\frac{51}{52} \times 11\frac{1}{7} + 2\frac{3}{4} = ?$

- a) 303.75 b) 305.75 c) $303\frac{3}{4}$
d) $305\frac{1}{4}$ e) None of these

$$611. (\sqrt{5} - \sqrt{10})^2 + (\sqrt{2} + 5)^2 = (?)^3 - 22$$

- a) $\sqrt{2}$ b) 2 c) 16
d) 8 e) None of these

$$612. 55\% \text{ of } \sqrt{2116} \div 0.01 = ? \times 20$$

- a) 126.5 b) 126.6 c) 124.6
d) 125.4 e) None of these

$$613. \sqrt{12^2 \times 16 \div 24 + 193 + 7 \times 5} = (?)^2$$

- a) $3\sqrt{2}$ b) $4\sqrt{2}$ c) $5\sqrt{2}$
d) 18 e) 32

$$614. \sqrt{31.36} \div \sqrt{0.64} \times 252 = (?)^2 \times 36$$

- a) 81 b) 64 c) -8
d) -7 e) 9

$$615. (1.69)^4 \div (2197 \div 1000)^3 \times (0.13 \times 10)^3 = (1.3)^{? - 2}$$

- a) 6 b) 2 c) 4
d) 0 e) None of these

* * *

Answer Key

1) d	2) e	3) a	4) b
5) c	6) a	7) d	8) b
9) e	10) b	11) d	12) c
13) a	14) c	15) c	16) b
17) b	18) c	19) a	20) e
21) a	22) b	23) e	24) d
25) d	26) a	27) e	28) b
29) a	30) b	31) b	32) d
33) c	34) c	35) d	36) d
37) a	38) a	39) a	40) c
41) b	42) e	43) d	44) d
45) b	46) b	47) a	48) e
49) b	50) c	51) d	52) a
53) e	54) d	55) b	56) a
57) a	58) b	59) e	60) a
61) e	62) c	63) c	64) b
65) a	66) a	67) a	68) b
69) a	70) c	71) e	72) c
73) d	74) e	75) b	76) b
77) d	78) d	79) b	80) e
81) a	82) c	83) c	84) e
85) d	86) c	87) d	88) b
89) c	90) a	91) b	92) c
93) b	94) c	95) c	96) e
97) d	98) c	99) a	100) d

101) e	102) a	103) b	104) e
105) a	106) e	107) b	108) d
109) b	110) a	111) a	112) b
113) d	114) c	115) e	116) a
117) d	118) d	119) e	120) c
121) b	122) a	123) e	124) d
125) c	126) a	127) d	128) c
129) b	130) c	131) b	132) d
133) a	134) a	135) e	136) c
137) e	138) d	139) b	140) a
141) b	142) d	143) a	144) a
145) c	146) e	147) e	148) d
149) c	150) e	151) a	152) c
153) d	154) d	155) e	156) b
157) a	158) b	159) c	160) e
161) c	162) b	163) a	164) a
165) e	166) b	167) b	168) e
169) a	170) a	171) e	172) e
173) d	174) b	175) c	176) c
177) a	178) d	179) d	180) a
181) e	182) e	183) b	184) c
185) d	186) c	187) b	188) a
189) c	190) d	191) e	192) c
193) d	194) b	195) c	196) a
197) d	198) b	199) e	200) e
201) a	202) c	203) b	204) b
205) a	206) c	207) a	208) d
209) d	210) e	211) e	212) b
213) c	214) a	215) d	216) e
217) a	218) d	219) b	220) e
221) b	222) c	223) e	224) b
225) a	226) a	227) c	228) d
229) b	230) d	231) c	232) a
233) d	234) d	235) e	236) c
237) a	238) d	239) e	240) b
241) d	242) d	243) b	244) a
245) d	246) c	247) b	248) a
249) a	250) b	251) d	252) c
253) b	254) e	255) e	256) d
257) e	258) e	259) b	260) b
261) e	262) a	263) c	264) a
265) e	266) a	267) b	268) d
269) a	270) c	271) d	272) a
273) d	274) b	275) e	276) b
277) e	278) b	279) d	280) c
281) a	282) d	283) c	284) e
285) c	286) e	287) c	288) d

289) d	290) e			471) c	472) e	473) e	474) b
291) e	292) a	293) c	294) a	475) b	476) b	477) e	478) d
295) c	296) d	297) c	298) e	479) a	480) c	481) b	482) d
299) c	300) e	301) b	302) b	483) a	484) e	485) c	486) a
303) a	304) a	305) d	306) d	487) e	488) b	489) d	490) c
307) a	308) e	309) b	310) e	491) a	492) e	493) b	494) a
311) a	312) c	313) d	314) b	495) d	496) e	497) b	498) e
315) e	316) b	317) d	318) a	499) c	500) d	501) c	502) d
319) e	320) c	321) e	322) a	503) c	504) e	505) a	506) e
323) c	324) d	325) b	326) c	507) e	508) e	509) d	510) d
327) a	328) d	329) c	330) b	511) e	512) b	513) c	514) d
331) d	332) e	333) b	334) d	515) e	516) c	517) a	518) b
335) e	336) e	337) d	338) b	519) e	520) d	521) c	522) e
339) a	340) c	341) e	342) a	523) b	524) d	525) c	526) a
343) b	344) a	345) c	346) e	527) e	528) d	529) b	530) c
347) c	348) b	349) a	350) d	531) c	532) b	533) a	534) a
351) a	352) c	353) d	354) e	535) d	536) a	537) c	538) b
355) b	356) b	357) a	358) c	539) a	540) e	541) b	542) d
359) e	360) a	361) c	362) b	543) e	544) a	545) c	546) a
363) d	364) d	365) e	366) b	547) b	548) c	549) e	550) d
367) c	368) d	369) d	370) c	551) c	552) a	553) b	554) e
371) d	372) e	373) c	374) a	555) a	556) e	557) a	558) a
375) b	376) b	377) a	378) e	559) d	560) b	561) a	562) d
379) e	380) a	381) c	382) d	563) e	564) b	565) c	566) d
383) b	384) e	385) c	386) a	567) d	568) b	569) e	570) c
387) d	388) b	389) e	390) a	571) b	572) c	573) e	574) a
391) a	392) c	393) e	394) b	575) b	576) c	577) c	578) e
395) d	396) d	397) c	398) a	579) d	580) b	581) d	582) d
399) e	400) b	401) c	402) a	583) c	584) b	585) e	586) c
403) e	404) d	405) b	406) d	587) b	588) d	589) e	590) b
407) b	408) a	409) e	410) c	591) e	592) d	593) d	594) c
411) d	412) e	413) b	414) e	595) b	596) a	597) c	598) d
415) a	416) c	417) b	418) d	599) c	600) b	601) b	602) d
419) a	420) e	421) b	422) c	603) a	604) e	605) a	606) d
423) d	424) b	425) c	426) d	607) a	608) b	609) e	610) b
427) c	428) c	429) a	430) b	611) e	612) a	613) a	614) d
431) d	432) d	433) c	434) b	615) c			
435) a	436) d	437) e	438) b				
439) c	440) a	441) c	442) a				
443) d	444) a	445) e	446) b				
447) b	448) d	449) c	450) e				
451) e	452) c	453) a	454) d				
455) b	456) d	457) a	458) b				
459) e	460) c	461) c	462) b				
463) d	464) e	465) a	466) d				
467) d	468) a	469) a	470) c				

R.A.C.E**Rapid Academy of Competitive Exams****SIMPLIFICATION****Day 1**

Directions: What will come in place of the question mark (?) in the following questions?

1. $7\frac{2}{7}$ of $189 + 452 = 2000 - ?$

- (a) 183 (b) 164 (c) 170
(d) 198 (e) None of these

2. 68% of $595 - 43\%$ of $372 = ?$

- (a) 244.64 (b) 232.84 (c) 278.44
(d) 260.24 (e) None of these

3. 35% of $(?) = 2175.95$

- (a) 6712 (b) 6217 (c) 6127
(d) 6721 (e) None of these

4. $(45)^2 + (21)^2 = (?)^2 + 257$

- (a) 51 (b) 49 (c) 45
(d) 47 (e) None of these

5. $90780 \div \sqrt{?} = 85 \times 12$

- (a) 89 (b) 7921 (c) 7569
(d) 87 (e) None of these

6. $\frac{15 \times 11 + 45}{13 \times 9 - 30} = ?$

- (a) $2\frac{1}{5}$ (b) $2\frac{7}{5}$ (c) $5\frac{3}{10}$
(d) $3\frac{8}{17}$ (e) None of these

7. $39852 \div \sqrt{?} = 81 \times 12$

- (a) 41 (b) 1849 (c) 1681
(d) 43 (e) None of these

8. $54679 + 34521 = ? + 43668$

- (a) 45352 (b) 45232 (c) 42455
(d) 45552 (e) None of these

9. 44% of $766 + ? = 900$

- (a) 498.48 (b) 562.96 (c) 574.80
(d) 444.64 (e) None of these

10. $3.3 + 13.33 + 31.13 + 13.31 + 1.3 = ?$

- (a) 64.31 (b) 62.37 (c) 64.47
(d) 62.17 (e) None of these

11. $(16)^2 + (21)^2 - (13)^2 + ? = (25)^2$

- (a) 67 (b) 32 (c) 81
(d) 97 (e) None of these

12. 73% of $5800 - 69\%$ of $240 = ?$

- (a) 4608.3 (b) 4210.8 (c) 4008.4
(d) 4680.4 (e) None of these

13. $\left(\frac{17}{119} \times \frac{98}{14}\right)^2 = ?$

- (a) 5 (b) 7 (c) 3
(d) 9 (e) None of these

14. $\sqrt{12321} = ?$

- (a) 111 (b) 121 (c) 81
(d) 91 (e) None of these

15. 72% of $654 - 41\%$ of $312 = ?$

- (a) 276.60 (b) 296.72 (c) 336.84
(d) 342.96 (e) None of these

16. $2376 \div 32 = ?$

- (a) 74.25 (b) 67 (c) 64.5
(d) 0.69 (e) None of these

17. $67539 + 43908 = ? + 78902$

- (a) 30125 (b) 31265 (c) 32455
(d) 33555 (e) None of these

18. $2520 \div 14 \div 9 = ?$

- (a) 22 (b) 18 (c) 20
(d) 16 (e) None of these

19. 3.2% of $250 + 1.8\%$ of $400 = ?$

- (a) 14.8 (b) 15.75 (c) 14.75
(d) 15.2 (e) None of these

20. $2.28 \times 12.5 - 6.5 \times 2.4 = ?$

- (a) 16.4 (b) 16.2 (c) 15.6
(d) 12.9 (e) None of these

21. $\sqrt{?} + 17^2 = 335$

- (a) 46 (b) 42 (c) 1764
(d) 2116 (e) None of these

22. 125% of $560 + 22\%$ of $450 = ?$

- (a) 799 (b) 700 (c) 782
(d) 749 (e) None of these

23. $666.06 + 66.60 + 0.66 + 6.06 + 6 + 60 = ?$

- (a) 819.56 (b) 805.38 (c) 826.44
(d) 6.607 (e) None of these

24. $15.594 - 4.312 - 3.517 - 1.689 = ?$

- (a) 6.706 (b) 6.760 (c) 6.670
(d) 6.607 (e) None of these

25. $205 \times ? \times 13 = 33625 + 25005$

- (a) 22 (b) 27 (c) 33
(d) 39 (e) None of these

26. $69 \div 3 \times 0.85 + 14.5 - 3 = ?$

- (a) 36.45 (b) 23.85 (c) 42.95
(d) 18.65 (e) None of these

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

27. $(10)^{24} \times (10)^{-21} = ?$
 (a) 3 (b) 10 (c) 100
 (d) 1000 (e) None of these
28. $\sqrt[3]{10648} \times \sqrt[3]{5832} = ?$
 (a) 396 (b) 216 (c) 432
 (d) 576 (e) None of these
29. $4.5 + 23.50 + 14.58 - 17.68 \times 0.5 = ?$
 (a) 33.74 (b) 21.29 (c) 35.06
 (d) 24.48 (e) None of these
30. $\frac{\sqrt{7744} \times 66}{203 + 149} = ?$
 (a) 15 (b) 18.5 (c) 20
 (d) 16.5 (e) None of these
31. $87146 - 66425 - 15693 = ?$
 (a) 5038 (b) 5028 (c) 5040
 (d) 5015 (e) None of these
32. $(786 \times 74) \div ? = 1211.75$
 (a) 42 (b) 36 (c) 56
 (d) 54 (e) None of these
33. $\frac{5}{9}$ of 504 + $\frac{3}{8}$ of 640 = ?
 (a) 520 (b) 480 (c) 460
 (d) 540 (e) None of these
34. $23.56 + 134.44 + 4142.25 = ?$
 (a) 4302.25 (b) 4300.75 (c) 4301.25
 (d) 4300.25 (e) None of these
35. 35% of 430 + ? % of 360 = 276.5
 (a) 30 (b) 25 (c) 45
 (d) 15 (e) None of these
36. $\frac{5}{9}$ of 567 + $\frac{3}{5}$ of 485 = ?
 (a) 24 (b) 606 (c) 480
 (d) 600 (e) None of these
37. 140% of 450 + 24% of 650 = ?
 (a) 786 (b) 474 (c) 800
 (d) 488 (e) None of these
38. 10% of 411.2 = ?
 (a) 411.2 (b) 41.12 (c) 64.25
 (d) 421.25 (e) None of these
39. 1.05% of 2500 + 2.5% of 440 = ?
 (a) 37.50 (b) 37.25 (c) 370.25
 (d) 372.50 (e) None of these
40. $4900 \div 28 \times 444 \div 12 = ?$
 (a) 6575 (b) 6475 (c) 6455
 (d) 6745 (e) None of these
41. $18^2 + \sqrt{?} = 350$
 (a) 576 (b) 676 (c) 26
 (d) 28 (e) None of these
42. $12.6 \times 10.2 \times 6.5 = ?$
 (a) 555.68 (b) 675.58 (c) 755.48
 (d) 835.38 (e) None of these
43. $28677 \div \sqrt{?} = 79 \times 11$
 (a) 33 (b) 1225 (c) 1089
 (d) 35 (e) None of these
44. $12540 \div 55 \div 6 = ?$
 (a) 32 (b) 38 (c) 46
 (d) 44 (e) None of these
45. $2\frac{1}{5} + 3\frac{2}{5} - 1\frac{1}{3} = ?$
 (a) $4\frac{4}{15}$ (b) $4\frac{1}{4}$ (c) $4\frac{2}{3}$
 (d) $4\frac{1}{5}$ (e) None of these
46. $1221 + 1117 = ? \% 6680$
 (a) 31 (b) 24 (c) 35
 (d) 18 (e) None of these
47. $\frac{3}{8}$ of $\frac{4}{7}$ of $\frac{7}{9}$ of 738 = ?
 (a) 123 (b) 132 (c) 142
 (d) 143 (e) None of these
48. 135% of 480 + 9 ? % of 320 = 728
 (a) 25 (b) 28 (c) 125
 (d) 115 (e) None of these
49. $\frac{36}{?} = \frac{90}{195}$
 (a) 76 (b) 72 (c) 78
 (d) 84 (e) None of these
50. $323.001 \times 15 + ? = 5000.015$
 (a) 145.014 (b) 155 (c) 145
 (d) 155.014 (e) None of these
51. $178 \div 5 \div 0.5 = ?$
 (a) 15.6 (b) 71.2 (c) 17.8
 (d) 20.4 (e) None of these
52. If $(11)^3$ is subtracted from the square of a number, the answer so obtained is 7930. What is the number?
 (a) 36 (b) 28 (c) 21
 (d) 48 (e) None of these
53. If $(78)^2$ is subtracted from the square of the number, the answer so obtained is 6460. What is the number?
 (a) 109 (b) 111 (c) 113
 (d) 115 (e) None of these

R.A.C.E**Rapid Academy of Competitive Exams**

54. $\frac{18 \times 14 + 46}{16 \times 10 - 23} = ?$
 (a) $1\frac{1}{2}$ (b) $2\frac{24}{137}$ (c) $4\frac{37}{138}$
 (d) $3\frac{32}{173}$ (e) None of these
55. Which number should replace both question marks in the following equation?
 $\frac{?}{388} = \frac{97}{?}$
 (a) 222 (b) 196 (c) 206
 (d) 178 (e) None of these
56. $5760 \div 45 \times 15 = ?$
 (a) 1890 (b) 1828 (c) 1820
 (d) 1928 (e) None of these
57. $22^2 + \sqrt{?} = 529$
 (a) 45 (b) 2045 (c) 2025
 (d) 48 (e) None of these
58. $\frac{17 \times 4 + 4^2 \times 2}{90 \div 5 \times 12} = ?$
 (a) $\frac{25}{54}$ (b) $\frac{22}{57}$ (c) $\frac{11}{27}$
 (d) $\frac{13}{27}$ (e) None of these
59. $7^{8.9} \div (343)^{1.7} \times (49)^{4.8} = 7^?$
 (a) 13.4 (b) 12.8 (c) 11.4
 (d) 9.6 (e) None of these
60. $\sqrt[3]{512} \div \sqrt[4]{16} + \sqrt{576} = ?$
 (a) 24 (b) 31 (c) 22
 (d) 18 (e) None of these
61. $199 + 5^3 \div 4 \times 4^2 = ?$
 (a) 969 (b) 655 (c) 966
 (d) 799 (e) None of these
62. If $(58)^2$ is added to the square of a number, the answer so obtained is 5668. What is the number?
 (a) 56 (b) 33 (c) 47
 (d) 51 (e) None of these
63. Which number should replace both the question marks (?) in the following equation?
 $\frac{?}{188} = \frac{47}{?}$
 (a) 88 (b) 124 (c) 66
 (d) 94 (e) None of these
64. $\frac{4}{9}$ of $\frac{3}{8}$ of $\frac{2}{7}$ of 294 = ?
 (a) 24 (b) 14 (c) 16
 (d) 22 (e) None of these
65. $16\% \text{ of } 250 + 115\% \text{ of } 480 = ?$
 (a) 522 (b) 588 (c) 582
 (d) 498 (e) None of these
66. $16.45 \times 2.8 + 4.5 \times 1.6 = ?$
 (a) 56.23 (b) 56.32 (c) 53.26
 (d) 53.66 (e) None of these
67. $45\% \text{ of } 660 + 28\% \text{ of } 450 = ?$
 (a) 413 (b) 428 (c) 423
 (d) 418 (e) None of these
68. $22^2 + \sqrt{?} = 516$
 (a) 1028 (b) 1024 (c) 1124
 (d) 1128 (e) None of these
69. $420 \div 28 \times 288 \div 32 = ?$
 (a) 235 (b) 236 (c) 138
 (d) 132 (e) None of these
70. $5616 \div 18 \div 8 = ?$
 (a) 36 (b) 76 (c) 49
 (d) 39 (e) None of these
71. $2.8 + 28.8 + 2.88 + 0.2 + 0.28 = ?$
 (a) 44.96 (b) 33.96 (c) 43.96
 (d) 34.96 (e) None of these
72. $93 + 26 \times 3 - 51 = ?$
 (a) 201 (b) 102 (c) 120
 (d) 210 (e) None of these
73. $(47)^2 - (15)^2 = ?$
 (a) 1894 (b) 1849 (c) 1948
 (d) 1984 (e) None of these
74. $\frac{34 \times 4 - 12 \times 8}{6^2 + \sqrt{196} + (11)^2} = ?$
 (a) $\frac{40}{121}$ (b) $\frac{36}{171}$ (c) $\frac{14}{171}$
 (d) $\frac{22}{171}$ (e) None of these
75. $\sqrt{?} + 15^2 = 235$
 (a) 10 (b) 121 (c) 144
 (d) 100 (e) None of these
76. $2.03\% \text{ of } 1400 + 4.2\% \text{ of } 450 = ?$
 (a) 18.09 (b) 10.33 (c) 24.42
 (d) 46.51 (e) None of these
77. $83\% \text{ of } 2350 = ?$
 (a) 1509.5 (b) 1950.5 (c) 1905.5
 (d) 1590.5 (e) None of these
78. $\sqrt{8281} = ?$
 (a) 89 (b) 97 (c) 93
 (d) 91 (e) None of these
79. $(63)^2 - (12)^2 = ?$
 (a) 3528 (b) 3852 (c) 3582
 (d) 3825 (e) None of these

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

80. 81% of 2300 – 34% of 596 = ?
 (a) 1060.63 (b) 1060.36 (c) 1660.36
 (d) 1006.63 (e) None of these
81. $\frac{9}{5}$ of $\frac{265}{513}$ of ? = 159
 (a) 171 (b) 198 (c) 215
 (d) 143 (e) None of these
82. 23% of 1630 = ?
 (a) 394.7 (b) 347.9 (c) 379.4
 (d) 374.9 (e) None of these
83. $0.5 \times 3.9 \div 1.3 = ? + 0.5$
 (a) 0.01 (b) 0.1 (c) 0.2
 (d) 1.0 (e) None of these
84. $13^{13} \times 13^7 = ?$
 (a) 13^6 (b) 13^{19} (c) 13^{20}
 (d) 13^{-6} (e) None of these
85. $464 \div (16 \times 2.32) = ?$
 (a) 12.5 (b) 14.5 (c) 10.5
 (d) 8.5 (e) None of these
86. $\frac{16 \times 12 + 38}{12 \times 8 - 25} = ?$
 (a) $2\frac{1}{2}$ (b) $2\frac{11}{70}$ (c) $4\frac{35}{142}$
 (d) $3\frac{7}{71}$ (e) None of these
87. If $(96)^2$ is added to the square of a number, the answer so obtained is 16441. What is the number?
 (a) 67 (b) 73 (c) 89
 (d) 91 (e) None of these
88. $1950 \div 26 \div 25 = ?$
 (a) 12 (b) 8 (c) 5
 (d) 3 (e) None of these
89. 18% of 450 – 75% of 96 = ?
 (a) 15 (b) 22 (c) 12
 (d) 16 (e) None of these
90. $75.75 - 48.32 + 146.92 = ?$
 (a) 174.35 (b) 175.34 (c) 173.45
 (d) 173.35 (e) None of these
91. $8\frac{1}{3} \times 4\frac{2}{5} + ? = 44\frac{2}{5}$
 (a) $7\frac{11}{15}$ (b) $7\frac{4}{15}$ (c) $7\frac{8}{15}$
 (d) $8\frac{7}{15}$ (e) None of these
92. $(7921 \div 178) - 5.5 = \sqrt{?}$
 (a) 1512 (b) 1521 (c) 1251
 (d) 1531 (e) None of these
93. $(5863 - \sqrt{2704}) \times 0.5 = ?$
 (a) 2955.5 (b) 2905.5 (c) 2590.5
 (d) 2909.5 (e) None of these
94. $25639 - 5252 - 3232 = ?$
 (a) 17255 (b) 17551 (c) 17515
 (d) 17155 (e) None of these
95. What is the value of (x) in the following question?
 $\frac{(x)^{0.7}}{36} = \frac{9}{(x)^{1.3}}$
 (a) 17 (b) 19 (c) 16
 (d) 14 (e) None of these
96. $6389 - 1212 - 2828 = ?$
 (a) 2349 (b) 2493 (c) 2934
 (d) 2394 (e) None of these
97. $\sqrt[3]{7.938} \times (6.120)^2 - 4.9256 = ?$
 (a) 70 (b) 55 (c) 30
 (d) 25 (e) 90
98. $\sqrt{963} + (4.895)^2 - 9.24 = ?$
 (a) 60 (b) 35 (c) 85
 (d) 45 (e) 25]
99. 15% of 524 – 2% of 985 + ? = 20% of 423
 (a) 25.9 (b) 27.7 (c) 25.7
 (d) 24.9 (e) None of these
100. $38.734 + 8.638 - 5.19 = ?$
 (a) 41.971 (b) 42.179 (c) 43.072
 (d) 42.182 (e) None of these
101. $? \div 0.5 \times 24 = 5652$
 (a) 171.75 (b) 117.25 (c) 171.25
 (d) 117.75 (e) None of these
102. $5 \times ? = 4808 \div 8$
 (a) 122.2 (b) 112.2 (c) 120.2
 (d) 102.2 (e) None of these
103. 94.5% of 650 = ?
 (a) 606.45 (b) 521.65 (c) 518.55
 (d) 614.25 (e) None of these
104. $13.33 + 33.31 + 331.13 = ?$
 (a) 350.55 (b) 377.77 (c) 350.05
 (d) 255.05 (e) None of these
105. $18 \times 8 + (?)^2 = 15^2$
 (a) 9 (b) 81 (c) 18
 (d) 27 (e) None of these
106. $2\frac{1}{4} + 3\frac{3}{4} - 1\frac{2}{3} = ?$
 (a) $4\frac{1}{3}$ (b) $4\frac{1}{4}$ (c) $4\frac{2}{3}$

R.A.C.E**Rapid Academy of Competitive Exams**

- (d) $4\frac{3}{5}$ (e) None of these
 107. $? \div 40 \times 9 = 378$
 (a) 1616 (b) 1648 (c) 1696
 (d) 1680 (e) None of these
 108. $975 + 714 \div 42 = ?$
 (a) 124 (b) 992 (c) 888
 (d) 40 (e) None of these
 109. $66\% \text{ of } 546 - 43\% \text{ of } 439 = ?$
 (a) 103.57 (b) 111.71 (c) 138.63
 (d) 171.59 (e) None of these
 110. $(62)^2 + (14)^2 = (?)^2 + 559$
 (a) 56 (b) 48 (c) 59
 (d) 53 (e) None of these
 111. $(91)^2 + (41)^2 - \sqrt{?} = 9858$
 (a) 11236 (b) 10816 (c) 10404
 (d) 9604 (e) None of these
 112. $\frac{\sqrt{4096} \times 56}{764 - 652} = ?$
 (a) 36 (b) 48 (c) 32
 (d) 44 (e) None of these
 113. $78.45 + 128.85 + 1122.25 = ?$
 (a) 1329.55 (b) 1239.55 (c) 1329.45
 (d) 1239.45 (e) None of these
 114. $\frac{14 \times 25 - 5^3}{24 \times 5 + 8 \times 9} = ?$
 (a) $1\frac{9}{64}$ (b) $\frac{64}{75}$ (c) $1\frac{11}{64}$
 (d) $1\frac{11}{75}$ (e) None of these
 115. $32.25 \times 2.4 \times 1.6 = ?$
 (a) 128.84 (b) 123.84 (c) 112.88
 (d) 112.84 (e) None of these
 116. $1.4\% \text{ of } 750 + 2.2\% \text{ of } 480 = ?$
 (a) 21.06 (b) 21.16 (c) 20.88
 (d) 21.18 (e) None of these
 117. $2.25\% \text{ of } 640 - 1.5\% \text{ of } 480 = ?$
 (a) 6.4 (b) 5.6 (c) 4.3
 (d) 7.2 (e) None of these
 118. $(8536 - \sqrt{2209}) \times 0.3 = ?$
 (a) 2556.7 (b) 2456.7 (c) 2546.7
 (d) 2645.7 (e) None of these
 119. What is the value of (x) in the following equation?
 $\frac{(x)^{1.2}}{9.8} = \frac{28}{(x)^{1.8}}$
 (a) 18 (b) 12 (c) 16
- (d) 14 (e) None of these
 120. $\frac{5}{8} + \frac{1}{4} + \frac{7}{12} = ?$
 (a) $1\frac{11}{24}$ (b) $1\frac{13}{24}$ (c) $1\frac{9}{26}$
 (d) $1\frac{7}{24}$ (e) None of these
 121. $\sqrt{841} + 729 = ?$
 (a) 758 (b) 763 (c) 741
 (d) 751 (e) None of these
 122. $24\% \text{ of } 6730 = ?$
 (a) 1615.2 (b) 1619.4 (c) 1613.8
 (d) 1617.2 (e) None of these
 123. $\sqrt{1521} + \sqrt{225} = ?$
 (a) 56 (b) 58 (c) 54
 (d) 62 (e) None of these
 124. $\sqrt{65} \times 12 - 50 + 54 = ?$
 (a) $\sqrt{28}$ (b) 28^2 (c) 28
 (d) 784 (e) None of these
 125. $\sqrt{324} + \sqrt{1296} = ?$
 (a) 52 (b) 44 (c) 54
 (d) 42 (e) None of these
 126. $204\% \text{ of } ? = 1848.24$
 (a) 517 (b) 784 (c) 321
 (d) 906 (e) None of these
 127. $71 + 897 \div 13 \times 3 = ?$
 (a) 276 (b) 273 (c) 278
 (d) 271 (e) None of these
 128. $\frac{3}{7} \text{ of } \frac{497}{249} \text{ of } ? = 639$
 (a) 474 (b) 774 (c) 477
 (d) 747 (e) None of these
 129. $8888 - 4444 + 222 = ?$
 (a) 5668 (b) 4666 (c) 4888
 (d) 3999 (e) None of these
 130. $27\% \text{ of } 450 - ?\% \text{ of } 375 = 76.5$
 (a) 14 (b) 19 (c) 12
 (d) 15 (e) None of these
 131. $17^{34.5} \times 17^{68.9} \div 17^{27.4} = 17^?$
 (a) 74.5 (b) 82 (c) 56
 (d) 76 (e) None of these
 132. $9786 - 4321 + 5053 = ? - 3727$
 (a) 14245 (b) 14524 (c) 14452
 (d) 14254 (e) None of these
 133. $190 \times 38 \div 4 = ?$
 (a) 1850 (b) 1508 (c) 1805

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

- (d) 1085 (e) None of these
 134. $4.3 + 43.34 + 34.43 + 43.43 + 3.4 = ?$
 (a) 189.2 (b) 129.8 (c) 128.9
 (d) 182.9 (e) None of these
 135. $\sqrt{576} + \sqrt{841} = ?$
 (a) 53 (b) 41 (c) 51
 (d) 43 (e) None of these
 136. $784 \div 16 \div 7 = ?$
 (a) 49 (b) 14 (c) 21
 (d) 7 (e) None of these
 137. $18.76 + 222.24 + 3242.15 = ?$
 (a) 3384.15 (b) 3483.15 (c) 3283.25
 (d) 3383.25 (e) None of these
 138. $13\frac{4}{7} + 5\frac{2}{7} \times 2\frac{1}{2} = ?$
 (a) $25\frac{11}{14}$ (b) $25\frac{3}{7}$ (c) $26\frac{3}{7}$
 (d) $26\frac{5}{14}$ (e) None of these
 139. $\frac{28 \times 5 - 15 \times 6}{7^2 + \sqrt{256} + (13)^2} = ?$
 (a) $\frac{27}{115}$ (b) $\frac{22}{117}$ (c) $\frac{25}{117}$
 (d) $\frac{22}{115}$ (e) None of these
 140. $4495 \div 145 \times 656 \div 16 = ?$
 (a) 1312 (b) 72 (c) 0.76
 (d) 0.41 (e) None of these
 141. $7986 \div 165 \times 7 = ?$
 (a) 338.8 (b) 55.4 (c) 6.91
 (d) 302.2 (e) None of these
 142. $45\% \text{ of } 240 + ?\% \text{ of } 360 = 234$
 (a) 45 (b) 35 (c) 30
 (d) 40 (e) None of these
 143. $96 + 32 \times 5 - 31 = ?$
 (a) 223 (b) 225 (c) 229
 (d) 221 (e) None of these
 144. $(9.8 \times 2.3 + 4.46) \div 3 = (3)^?$
 (a) 3 (b) 9 (c) 5
 (d) 2 (e) None of these
 145. $\sqrt{8649} = ?$
 (a) 89 (b) 97 (c) 93
 (d) 91 (e) None of these
 146. $3.6 + 36.6 + 3.66 + 0.36 + 3.0 = ?$
 (a) 44.22 (b) 77.22 (c) 74.22
 (d) 47.22 (e) None of these
 147. $311 \times 17 - 2482 = ?$
 (a) 2650 (b) 2892 (c) 2805
 (d) 2788 (e) None of these
 148. $415.25 - 627.10 + 958.55 = ?$
 (a) 747.5 (b) 674.7 (c) 750.7
 (d) 747.9 (e) None of these
 149. $\sqrt[3]{42875} - ? = 21$
 (a) 18 (b) 13 (c) 15
 (d) 11 (e) None of these
 150. $4\frac{5}{6} + 7\frac{1}{2} - 5\frac{8}{11} = ?$
 (a) $2\frac{10}{33}$ (b) $6\frac{20}{33}$ (c) $2\frac{20}{33}$
 (d) $6\frac{10}{33}$ (e) None of these
 151. $\frac{9}{10} + \frac{3}{11} + \frac{7}{15} = ?$
 (a) $1\frac{217}{330}$ (b) $1\frac{221}{330}$ (c) $1\frac{211}{330}$
 (d) $1\frac{197}{330}$ (e) None of these
 152. $\sqrt[3]{21952} + 33 = ?$
 (a) 58 (b) 61 (c) 63
 (d) 51 (e) None of these
 153. $\frac{57}{67} \times \frac{32}{171} \times \frac{45}{128} = ?$
 (a) $\frac{15}{262}$ (b) $\frac{15}{268}$ (c) $\frac{15}{266}$
 (d) $\frac{17}{268}$ (e) None of these
 154. $\frac{17 \times 4 + 18 \times 3}{\sqrt{441} \times 5 + 139} = ?$
 (a) $\frac{1}{4}$ (b) $\frac{1}{2}$ (c) $\frac{2}{3}$
 (d) $\frac{1}{3}$ (e) None of these
 155. $145\% \text{ of } 780 + ?\% \text{ of } 250 = 1231$
 (a) 25 (b) 30 (c) 40
 (d) 45 (e) None of these
 156. $125\% \text{ of } 200 + 36\% \text{ of } 350 = ?$
 (a) 451 (b) 126 (c) 227
 (d) 325 (e) None of these
 157. $8934 - 3257 + 481 = ? + 2578$
 (a) 6158 (b) 3580 (c) 3040
 (d) 3400 (e) None of these
 158. $\sqrt{1089} + 3 = (?)^2$
 (a) 5 (b) 6 (c) 3
 (d) 8 (e) 4
 159. $\sqrt{7} + 19^2 = 21^2$
 (a) 6400 (b) 4 (c) 64
 (d) 16 (e) None of these
 160. $12\frac{3}{5} + 4\frac{1}{5} \times 3\frac{2}{3} = ?$
 (a) $28\frac{1}{5}$ (b) $27\frac{2}{15}$ (c) 28

R.A.C.E**Rapid Academy of Competitive Exams**

- (d) $27\frac{2}{15}$ (e) None of these
161. $\frac{28 \times 5 - 14 \times 4}{8^2 + \sqrt{225} + 14^2} = ?$
- (a) $\frac{27}{83}$ (b) $\frac{84}{275}$ (c) $\frac{84}{285}$
- (d) $\frac{42}{275}$ (e) None of these
162. $8424 \div 135 \times 6 = ?$
- (a) 124.8 (b) 249.6 (c) 374.4
- (d) 274.4 (e) None of these
163. $(98360 + 25845 - 36540) \div 2500 = ?$
- (a) 36.585 (b) 30.082 (c) 32.085
- (d) 35.066 (e) None of these
164. $7414 + 3698 + 1257 + 1869 = ?$
- (a) 14328 (b) 14438 (c) 13428
- (d) 13248 (e) None of these
165. $72.42 + 385.66 + 4976.38 = ?$
- (a) 5234.46 (b) 5434.46 (c) 5434.66
- (d) 5244.66 (e) None of these
166. $1740 \div 12 \times 4070 \div 110 = ?$
- (a) 5635 (b) 5365 (c) 5465
- (d) 5445 (e) None of these
167. $8\frac{5}{9} \times 4\frac{3}{5} - 6\frac{1}{3} = ?$
- (a) $32\frac{11}{45}$ (b) $33\frac{11}{45}$ (c) $32\frac{1}{45}$
- (d) $33\frac{1}{45}$ (e) None of these
168. $27.28 \div 2.2 + 4.7 \times 1.5 = ?$
- (a) 18.85 (b) 19.25 (c) 18.75
- (d) 19.45 (e) None of these
169. $\frac{5}{8}$ of $\frac{2}{3}$ of $\frac{3}{5}$ of 2104 = ?
- (a) 532 (b) 536 (c) 526
- (d) 528 (e) None of these
170. $4966 + 285 - 1236 + ? = 4860$
- (a) 854 (b) 848 (c) 825
- (d) 875 (e) None of these
171. $43\% \text{ of } 600 + ?\% \text{ of } 300 = 399$
- (a) 45 (b) 41 (c) 42
- (d) 47 (e) None of these
172. $63 \times 9 \times 14 \div ? = 98$
- (a) 83 (b) 86 (c) 88
- (d) 91 (e) None of these
173. $\sqrt{17956} = ?$
- (a) 134 (b) 144 (c) 124
- (d) 104 (e) None of these
174. $30\% \text{ of } 200 + \sqrt{?} = 48\% \text{ of } 550 - 10\% \text{ of } 150$
- (a) 600 (b) 21 (c) 189
- (d) 35721 (e) None of these
175. $8\frac{1}{4} + \frac{6}{5}$ of $60\% \text{ of } \frac{6}{5} = 15 - ?$
- (a) 5.55 (b) 6.27 (c) 6.03
- (d) 6.13 (e) None of these
176. $4^7 \div 16^4 \times \sqrt{16} = ?$
- (a) $\frac{1}{16}$ (b) $\frac{1}{4}$ (c) 4
- (d) 1 (e) None of these
177. $1862 \div 28 = ?$
- (a) 89 (b) 7921 (c) 7569
- (d) 87 (e) None of these
178. $743 + 958 = ?\% \text{ of } 5670$
- (a) 34 (b) 26 (c) 30
- (d) 22 (e) None of these
179. $5\frac{1}{8}$ of $208 + 786 = 2000 - ?$
- (a) 112 (b) 148 (c) 184
- (d) 124 (e) None of these
180. $14.8 \times 12.3 \times 8.6 = ?$
- (a) 1555.454 (b) 1535.445 (c) 1545.545
- (d) 1565.544 (e) None of these
181. $\sqrt[3]{13824} \times \sqrt{7} = 864$
- (a) 1296 (b) 1156 (c) 1600
- (d) 1024 (e) None of these
182. Which number should replace both question marks (?) in the following equation?
- $\frac{?}{176} = \frac{44}{?}$
- (a) 92 (b) 132 (c) 76
- (d) 88 (e) None of these
183. $1354 + 1184 = ?\% \text{ of } 5640$
- (a) 36 (b) 42 (c) 45
- (d) 52 (e) None of these
184. $3\frac{1}{6} + 4\frac{2}{3} - 1\frac{1}{4} = ?$
- (a) $4\frac{1}{6}$ (b) $6\frac{2}{9}$ (c) $6\frac{7}{12}$
- (d) $5\frac{1}{9}$ (e) None of these
185. If $(108)^2$ is added to the square of a number, the answer so obtained is 13033. What is the number?
- (a) 33 (b) 43 (c) 37
- (d) 47 (e) None of these
186. $\frac{12^2 - 4^2}{9^2 - 3^2} = ?$
- (a) $1\frac{7}{9}$ (b) $1\frac{8}{9}$ (c) $1\frac{1}{2}$

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

- (d) 9 (e) None of these
 187. $777.07 + 77.77 + 0.77 + 7.07 + 7 + 77 = ?$
 (a) 946.78 (b) 946.68 (c) 964.68
 (d) 946.86 (e) None of these
 188. $2637 \div 36 = ?$
 (a) 73.25 (b) 68 (c) 66.5
 (d) 71 (e) None of these
 189. $7275.84 - 889.4 + 124.518 = ?$
 (a) 6550.202 (b) 6560.598 (c) 6550.958
 (d) 6510.958 (e) None of these
 190. $63251 + 52894 = ? + 37624$
 (a) 87812 (b) 67281 (c) 76821
 (d) 78521 (e) None of these
 191. $0.99 \times 14 \div 11 \div 0.7 = ?$
 (a) 18 (b) 180 (c) 1.8
 (d) 1800 (e) None of these
 192. 45% of 720 = 30% of ?
 (a) 960 (b) 1080 (c) 1240
 (d) 820 (e) None of these
 193. 48% of 840 = 36% of ?
 (a) 1080 (b) 1320 (c) 1240
 (d) 720 (e) None of these
 194. $18800 \div 470 \div 20 = ?$
 (a) 800 (b) 2 (c) 23.5
 (d) 0.10 (e) None of these
 195. $11.6 \times 8.9 \times 5.1 = ?$
 (a) 398.264 (b) 664.358 (c) 468.428
 (d) 526.524 (e) None of these
 196. $(8.2\% \text{ of } 365) - (1.75\% \text{ of } 108) = ?$
 (a) 16.02 (b) 28.04 (c) 42.34
 (d) 53.76 (e) None of these
 197. $4368 + 2158 - 596 - ? = 3421 + 1262$
 (a) 1066 (b) 1174 (c) 1247
 (d) 1387 (e) None of these
 198. $8 \times 5 + (?)^2 = (11)^2$
 (a) 81 (b) 6561 (c) 9
 (d) 27 (e) None of these
 199. $\sqrt{7} + 136 = \frac{5}{8} \text{ of } 320$
 (a) 1936 (b) 4624 (c) 4196
 (d) 4096 (e) None of these
 200. $[(135)^2 \div 15 \times 32] \div ? = 45 \times 24$
 (a) 18 (b) 24 (c) 36
 (d) 44 (e) None of these
 201. $63\% \text{ of } 962 + ? = 999$
 (a) 346.92 (b) 368.64 (c) 392.94
 (d) 402.68 (e) None of these
 202. $546 + 222 \div 6 \times 9 = ?$
 (a) 982 (b) 997 (c) 879
 (d) 839 (e) None of these
 203. $0.04 \times ? = 0.000016$
 (a) 4 (b) 0.04 (c) 0.0004
 (d) 400 (e) None of these
 204. $(96)^2 + (63)^2 = (?)^2 - (111)^2 - 8350$
 (a) 33856 (b) 30276 (c) 174
 (d) 184 (e) None of these
 205. $65\% \text{ of } 400 + \sqrt{7} = 44\% \text{ of } 800 - 12\% \text{ of } 400$
 (a) 1936 (b) 44 (c) 2116
 (d) 46 (e) None of these
 206. $456 + 144 \div 6 \times 8 = ?$
 (a) 12.5 (b) 608 (c) 648
 (d) 800 (e) None of these
 207. $(786 \times 64) \div 48 = ?$
 (a) 1050 (b) 1024 (c) 1048
 (d) 1036 (e) None of these
 208. $136 \times 68 \div 17 = ?$
 (a) 504 (b) 524 (c) 454
 (d) 554 (e) None of these
 209. $136 \times 15 - 85 \times 12 = ?$
 (a) 1180 (b) 1080 (c) 1120
 (d) 1020 (e) None of these
 210. $\frac{350 \times 25}{8 \times 2.5} = ?$
 (a) 437.5 (b) 8750 (c) 1093.75
 (d) 364.5 (e) None of these
 211. $65 + \sqrt{7} = 83$
 (a) 334 (b) 224 (c) 324
 (d) 254 (e) None of these
 212. $\frac{12}{?} = \frac{?}{27}$
 (a) 162 (b) 164 (c) 8
 (d) 16 (e) None of these
 213. $8305 \times \left(\frac{1}{7} \times \frac{1}{5} \times 840\right) = ?$
 (a) 193920 (b) 199320 (c) 199230
 (d) 192390 (e) None of these
 214. $? \% \text{ of } 8745 = 5159.55$
 (a) 49 (b) 54 (c) 57
 (d) 47 (e) None of these
 215. $(14^2 - 13^2) \div 3 = ?^2$

R.A.C.E**Rapid Academy of Competitive Exams**

- (a) 9 (b) 3 (c) 27
(d) 6 (e) None of these
216. $\frac{3 \times 8 + 4}{9 \times 15 - 9} = ?$
(a) $\frac{16}{9}$ (b) $\frac{2}{3}$ (c) $\frac{4}{9}$
(d) $\frac{3}{2}$ (e) None of these
217. $\frac{18 + 17 \times 3 - 1}{8 - 15 \div 3 - 1} = ?$
(a) 17 (b) 26 (c) 13
(d) 34 (e) None of these
218. $6.4 \times ? = 361.6$
(a) 63.5 (b) 52.5 (c) 66.5
(d) 56.5 (e) None of these
219. $1256 \div (32 \times 0.25) = ?$
(a) 160 (b) 154 (c) 165
(d) 157 (e) None of these
220. $15^3 \times 9^3 - 1555^2 = ?$
(a) 41250 (b) 43250 (c) 42350
(d) 44250 (e) None of these
221. If $(56)^2$ is added to the square of a number, the answer so obtained is 4985. What is the number?
(a) 52 (b) 43 (c) 65
(d) 39 (e) None of these
222. $\sqrt[3]{13824} = ?$
(a) 22 (b) 28 (c) 24
(d) 32 (e) None of these
223. $828.88 + 369.14 - 741.52 = ?$
(a) 436.4 (b) 456.5 (c) 463.4
(d) 465.5 (e) None of these
224. $(74395 - 72699) \times \frac{5}{16} = ?$
(a) 106 (b) 420 (c) 530
(d) 240 (e) None of these
225. $38 \times 5.6 \times 11.5 - 31.653 = ?$
(a) 234.880 (b) 265.404 (c) 213.067
(d) 256.072 (e) None of these
226. $8.2 \times ? = 465.76$
(a) 56.8 (b) 48.6 (c) 62.4
(d) 74.2 (e) None of these
227. $25^3 \times 4^3 - 800^2 = (?)^2$
(a) 360000 (b) 60000 (c) 3600
(d) 6000 (e) None of these
228. $96 \times ? = 8832 \div 4$
(a) 21 (b) 23 (c) 25
- (d) 27 (e) None of these
229. $15^{15} \times 15^3 = ?$
(a) 15^{45} (b) 15^{18} (c) 15^{12}
(d) 15^5 (e) None of these
230. $74698 + 365 + 85213 + 95 = ?$
(a) 160281 (b) 160641 (c) 160371
(d) 160362 (e) None of these
231. $956.38 - 532.96 + 108.82 = ?$
(a) 356.78 (b) 472.64 (c) 532.24
(d) 694.98 (e) None of these
232. $1720 - 258 + 428 \times 5.5 = ?$
(a) 3431 (b) 3716 (c) 3816
(d) 3388 (e) None of these
233. $16\% \text{ of } 380 \times 5 = ?$
(a) 276 (b) 284 (c) 304
(d) 312 (e) None of these
234. $4 \frac{4}{5} \div 6 \frac{2}{5} = ?$
(a) $\frac{3}{4}$ (b) $\frac{5}{7}$ (c) $\frac{7}{11}$
(d) $\frac{5}{8}$ (e) None of these
235. $\frac{2}{5} \text{ of } \frac{1}{3} \text{ of } \frac{3}{5} \text{ of } 48685 = ?$
(a) 3287.5 (b) 3415.6 (c) 3894.8
(d) 2967.4 (e) None of these
236. $485.21 - 259.12 + 338.47 = ?$
(a) 575.96 (b) 564.56 (c) 546.76
(d) 515.86 (e) None of these
237. $8442 \div \sqrt{576} - ? = 351$
(a) 1.50 (b) 0.75 (c) 1.75
(d) 0.56 (e) None of these
238. The product of two consecutive odd numbers in 6723. What is the square root of the smaller number?
(a) 9 (b) 729 (c) 6561
(d) 81 (e) None of these
239. $783 \div 9 \div 0.75 = ?$
(a) 130 (b) 124 (c) 118
(d) 112 (e) None of these
240. $? \div 48 \times 17 = 612$
(a) 1680 (b) 1728 (c) 1874
(d) 1936 (e) None of these
241. $1615 \div (50 \times 0.85) = ?$
(a) 36 (b) 38 (c) 40
(d) 42 (e) None of these

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

242. $126315 - 87924 = ? \times 67$
 (a) 684 (b) 661 (c) 573
 (d) 562 (e) None of these
243. $547 \times 37 - 20000 = ?$
 (a) 239 (b) 237 (c) 235
 (d) 233 (e) None of these
244. If $(150)^2$ is added to the cube of a number, the answer so obtained is 77372. What is the number?
 (a) 32 (b) 34 (c) 36
 (d) 38 (e) None of these
245. $456 \div 24 + 324 \times 17 = ?$
 (a) 5525 (b) 5725 (c) 5727
 (d) 5427 (e) None of these
246. $5\frac{3}{5} \times 2\frac{6}{7} = ?$
 (a) 13 (b) 17 (c) 21
 (d) 25 (e) None of these
247. $\sqrt{?} + 18 = \sqrt{1444}$
 (a) 441 (b) 361 (c) 400
 (d) 484 (e) None of these
248. If $(51)^2$ is added to the square of a number, the answer so obtained is 15826. What is the number?
 (a) 115 (b) 114 (c) 116
 (d) 113 (e) None of these
249. $3412 + 4367 + 5590 = ?$
 (a) 13121 (b) 13245 (c) 13369
 (d) 13487 (e) None of these
250. $23\frac{8}{9} + 15\frac{7}{9} - 12\frac{1}{3} \times \frac{2}{3} = ?$
 (a) $30\frac{1}{3}$ (b) $31\frac{1}{3}$ (c) $30\frac{4}{9}$
 (d) $31\frac{4}{9}$ (e) None of these
251. $\frac{3.5 \times 4 - 2.6 \times 5}{7.8 \times 5 - 5.5 \times 4} = \frac{?}{?}$
 (a) 34 (b) 28 (c) 17
 (d) 51 (e) None of these
252. $33.03 \times 5.5 + 18.95 = ?$
 (a) 199.665 (b) 200.605 (c) 200.615
 (d) 200.665 (e) None of these
253. $780 \div \sqrt{676} + (?)^2 = 1326$
 (a) 1296 (b) 32 (c) 1024
 (d) 36 (e) None of these
254. $\frac{1}{?} \times \frac{2}{7} \times \frac{4}{5} \times 4585 = 65.5$
 (a) 8 (b) 24 (c) 4
- (d) 16 (e) None of these
255. $744 \div ? \times 0.4 = 9.3$
 (a) 32 (b) 35 (c) 36
 (d) 28 (e) None of these
256. $\frac{2}{3}$ rd of $\frac{3}{5}$ th of $\frac{4}{5}$ th of $? = 1112$
 (a) 3575 (b) 3475 (c) 3425
 (d) 3215 (e) None of these
257. If the square of a number is subtracted from 4052 and the difference is multiplied by 15, the answer so obtained is 41340. What is the number?
 (a) 36 (b) 1024 (c) 32
 (d) 1296 (e) None of these
258. $(7)^3 + (5)^2 + (4)^3 \div (16)^2 = ?$
 (a) 1.6875 (b) 468.25 (c) 368.0625
 (d) 368.25 (e) None of these
259. $4580 - 36\% \text{ of } ? = 4529.6$
 (a) 180 (b) 120 (c) 150
 (d) 140 (e) None of these
260. If $(11)^3$ is subtracted from the square of a number, the answer so obtained is 7694. What is the number?
 (a) 85 (b) 93 (c) 95
 (d) 83 (e) None of these
261. $4 \times ? = 9835 \div 7$
 (a) 315.25 (b) 351.25 (c) 317.25
 (d) 371.25 (e) None of these
262. $6\frac{2}{5} \div 28\frac{4}{25} = ?$
 (a) $\frac{7}{25}$ (b) $\frac{5}{12}$ (c) $\frac{9}{25}$
 (d) $\frac{5}{22}$ (e) None of these
263. $6250 \div 8 = ?$
 (a) 772.25 (b) 781.25 (c) 787.25
 (d) 776.25 (e) None of these
264. $288 \times 64 + 150 \div 25 = ?$
 (a) 743.28 (b) 2465.28 (c) 18432
 (d) 18438 (e) None of these
265. $636.66 + 366.36 + 363.33 = ?$
 (a) 1366.25 (b) 1636.35 (c) 1336.35
 (d) 1363.25 (e) None of these
266. $8476 \div ? \times 45 + 32 = 5900$
 (a) 56 (b) 45 (c) 65
 (d) 64 (e) None of these
267. $2205 \div (14 \times 2.5) = ?$

R.A.C.E**Rapid Academy of Competitive Exams**

- (a) 63 (b) 77 (c) 72
(d) 81 (e) None of these
268. $3\frac{1}{6} + 4\frac{1}{2} - 2\frac{2}{3} - 1\frac{11}{12} = ?$
(a) $3\frac{7}{12}$ (b) $3\frac{1}{12}$ (c) $1\frac{5}{12}$
(d) $1\frac{7}{12}$ (e) None of these
269. $2\frac{3}{4} \times 5\frac{5}{7} \div 2\frac{4}{9} - (?) = 4$
(a) $2\frac{1}{7}$ (b) $3\frac{2}{7}$ (c) $3\frac{4}{7}$
(d) $2\frac{3}{7}$ (e) None of these
270. $(9^{5.6} \times 9^{10.3}) \div 9^{2.56} = 9^?$
(a) 13.14 (b) 12.96 (c) 12.43
(d) 13.34 (e) None of these
271. $(0.6)^4 \times (0.36)^2 \times (0.216) = (0.6)^?$
(a) 12 (b) 14 (c) 11
(d) 13 (e) None of these
272. $3\frac{3}{4} \div 2\frac{1}{2} \times 4\frac{1}{2} + 1\frac{3}{4} = ?$
(a) $7\frac{1}{2}$ (b) $4\frac{1}{4}$ (c) $3\frac{3}{4}$
(d) $8\frac{1}{2}$ (e) None of these
273. $3\frac{3}{8} \times 4 \times \frac{4}{9} \div 3\frac{4}{7} - 3\frac{3}{5} = ?$
(a) $\frac{3}{5}$ (b) $4\frac{1}{5}$ (c) $5\frac{1}{5}$
(d) $\frac{2}{5}$ (e) None of these
274. $27.831 - 31.425 + 18.749 - (?) = 12$
(a) 3.255 (b) 3.105 (c) 4.155
(d) 4.345 (e) None of these
275. $\sqrt{7744} = ?$
(a) 88 (b) 62 (c) 58
(d) 78 (e) None of these
276. $3695.12 + 4458.02 - ? = 7592.14$
(a) 465 (b) 651 (c) 575
(d) 561 (e) None of these
277. $64\% \text{ of } 2650 + 40\% \text{ of } 320 = ?$
(a) 1824 (b) 1902 (c) 1829
(d) 1964 (e) None of these
278. $26 \times 451 - ? = 6103$
(a) 6532 (b) 5623 (c) 6251
(d) 4563 (e) None of these
279. $1008 \div 36 = ?$
(a) 28 (b) 32.5 (c) 36
(d) 22.2 (e) None of these
280. $6534 \div 40 \div 33 = ?$
(a) 3.06 (b) 5.25 (c) 4.82
(d) 6.12 (e) None of these
281. $(486\% \text{ of } 6500) \div 36 = ?$
(a) 867.8 (b) 792.31 (c) 877.5
(d) 799.83 (e) None of these
282. What number should replace both the question marks (?) in the following question?
 $\frac{121}{?} = \frac{?}{81}$
(a) 89 (b) 73 (c) 99
(d) 85 (e) None of these
283. $(32)^2 - (18)^2 = ?$
(a) 720 (b) 700 (c) 690
(d) 675 (e) None of these
284. $25\% \text{ of } 965 - 69\% \text{ of } ? = 210.2$
(a) 50 (b) 49 (c) 55
(d) 45 (e) None of these
285. $142 \times 20 \times 3 = ?$
(a) 7250 (b) 7425 (c) 8250
(d) 8520 (e) None of these
286. $138 \times \sqrt{?} = 6210$
(a) 45 (b) 2025 (c) 65
(d) 2045 (e) None of these
287. $336 \times 15 \times 8 = ?$
(a) 41320 (b) 40330 (c) 41330
(d) 40350 (e) None of these
288. $36\% \text{ of } 115 + 16\% \text{ of } 185 = ?$
(a) 66 (b) 71 (c) 67.4
(d) 72.6 (e) None of these
289. $5^{8.9} \times 25^{7.2} \div 125^{4.6} = 5^?$
(a) 10.5 (b) 9.5 (c) 7.6
(d) 8.7 (e) None of these
290. $35\% \text{ of } ? = 197.4$
(a) 665 (b) 654 (c) 564
(d) 551 (e) None of these
291. $27.81 + 43.74 - 64.37 = ?$
(a) 8.18 (b) 7.78 (c) 8.68
(d) 7.18 (e) None of these
292. $\frac{4}{5} + \frac{7}{10} - \frac{1}{2} = ?$
(a) 2 (b) 1 (c) $\frac{3}{10}$
(d) $\frac{9}{10}$ (e) None of these
293. $375 \div ? = 75$
(a) 25 (b) 15 (c) 10
(d) 5 (e) None of these

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

294. $(41 + 14) - (12 \times 4) = ?$
 (a) 6 (b) 7 (c) 9
 (d) 10 (e) None of these
295. $7^2 - 4^2 = (?)^2 + 8$
 (a) 2 (b) 4 (c) 6
 (d) 5 (e) None of these
296. $\frac{3}{25} \times \frac{14}{17} \div \frac{21}{34} = (?)^2$
 (a) $\frac{4}{25}$ (b) $\frac{5}{2}$ (c) $\frac{2}{5}$
 (d) $\frac{16}{25}$ (e) None of these
297. $\frac{363}{?} = \frac{?}{3}$
 (a) 43 (b) 33 (c) 37
 (d) 47 (e) None of these
298. 2.5% of 240 = ? + 3.2% of 150
 (a) 12 (b) 1.6 (c) 1.2
 (d) 6 (e) None of these
299. $256 - \sqrt{256} = ?$
 (a) 230 (b) 250 (c) 240
 (d) 210 (e) None of these
300. $24 \times 56 \div 7 - 140 = ?$
 (a) 32 (b) 52 (c) 38
 (d) 46 (e) None of these
301. $\sqrt{289} - 15 = ?$
 (a) 5 (b) 6 (c) 7
 (d) 4 (e) None of these
302. $\sqrt{7} - 12 = 1$
 (a) 13 (b) 159 (c) 169
 (d) 17 (e) None of these
303. $\frac{?}{32} = \frac{18}{?}$
 (a) 26 (b) 34 (c) 36
 (d) 24 (e) None of these
304. $162.5 + 320.8 = 420.6 + ?$
 (a) 60.7 (b) 48.9 (c) 62.7
 (d) 74.6 (e) None of these
305. $\frac{\sqrt{196}}{7} = \sqrt{?}$
 (a) 2 (b) 3 (c) 4
 (d) 7 (e) None of these
306. $13.141 + 34.417 - 27.118 = ?$
 (a) 16.441 (b) 17.543 (c) 17.490
 (d) 16.440 (e) None of these
307. $\frac{324-225}{?} = 3$
 (a) 27 (b) 66 (c) 45
- (d) 33 (e) None of these
308. $\sqrt{576} - \sqrt{289} = \sqrt{?} + 1$
 (a) 6 (b) 36 (c) 49
 (d) 7 (e) None of these
309. $\frac{25-4^2}{6^2-28} = ?$
 (a) $2\frac{1}{4}$ (b) $\frac{5}{8}$ (c) $\frac{9}{10}$
 (d) $1\frac{1}{7}$ (e) None of these
310. $425 + 363 - ? = 536$
 (a) 230 (b) 232 (c) 240
 (d) 252 (e) None of these
311. $3^7 \times 3^9 \div 3^5 = 3^{(?)}$
 (a) 10 (b) 16 (c) 8
 (d) 11 (e) None of these
312. If $(7)^2$ is added to a number, the value so obtained is 52. What is the number?
 (a) 6 (b) 8 (c) 5
 (d) 3 (e) None of these
313. $4\frac{7}{8} - 2\frac{1}{2} + 1\frac{3}{4} = ?$
 (a) $4\frac{5}{8}$ (b) $3\frac{7}{8}$ (c) $8\frac{1}{4}$
 (d) $3\frac{1}{4}$ (e) None of these
314. $25^{2.7} \times 5^{4.2} \div 5^{6.4} = 25^{(?)}$
 (a) 1.7 (b) 3.2 (c) 1.6
 (d) 3.6 (e) None of these
315. $\frac{23}{?} = \frac{?}{92}$
 (a) 56 (b) 54 (c) 44
 (d) 46 (e) None of these
316. $453 - 336 + 110 = ? + 31$
 (a) 194 (b) 196 (c) 186
 (d) 256 (e) None of these
317. $(656 \div 164)^2 = \sqrt{?}$
 (a) 4 (b) 16 (c) 64
 (d) 256 (e) None of these
318. $1\frac{3}{5} + 2\frac{5}{6} - 3\frac{1}{3} = ?$
 (a) $1\frac{1}{10}$ (b) $2\frac{1}{10}$ (c) $1\frac{1}{30}$
 (d) $2\frac{1}{5}$ (e) None of these
319. 25% of 1020 - (?)% of 1220 = 72
 (a) 5 (b) 15 (c) 25
 (d) 30 (e) None of these
320. $\frac{832}{24} \times \frac{84}{26} \div \frac{252}{72} = ?$
 (a) 64 (b) 16 (c) 32

R.A.C.E**Rapid Academy of Competitive Exams****Day 2**

(d) 128 (e) None of these

321. 35% of 200 - 45% of 340 = ? - 150

(a) 67 (b) 233 (c) 57

(d) 333 (e) None of these

322. $9 \times 81 \div 27 = (3)^?$

(a) 2 (b) 3 (c) 4

(d) 5 (e) None of these

323. $\sqrt{441 - 41} \times 42 \times 7 = ?$

(a) 20 (b) 60 (c) 180

(d) 120 (e) None of these

324. $\frac{7}{36}$ of 20% of 540 = ?

(a) 21 (b) 14 (c) 20

(d) 30 (e) None of these

325. $4\frac{1}{5} \times 4\frac{2}{7} \div 3\frac{1}{3} = ?$ (a) $2\frac{2}{5}$ (b) $4\frac{3}{8}$ (c) $4\frac{2}{5}$ (d) $6\frac{1}{8}$ (e) None of these326. $724 - 336 + 499 = ? + 112$

(a) 765 (b) 745 (c) 551

(d) 641 (e) None of these

327. $2^5 - 3^4 + 4^3 - 5^2 + 7^2 = (?)^2 + \sqrt{9}$ (a) $(36)^2$ (b) 4 (c) 6

(d) 36 (e) None of these

328. If $(19)^2$ is added to a number, the value so obtained is $(23)^2$. What is the number?

(a) 165 (b) 166 (c) 178

(d) 158 (e) None of these

329. 76% of (?) - $(11)^2 = 525$

(a) 850 (b) 750 (c) 740

(d) 840 (e) None of these

330. $\sqrt{2.25} \times (12)^2 = (?)^3$ (a) 64 (b) 36 (c) $\sqrt{6}$

(d) 6 (e) None of these

331. $624 \div 26 \times 3 + 110 = ?$

(a) 182 (b) 172 (c) 118

(d) 108 (e) None of these

332. $\sqrt{7^2 + 17^2 + 5^2 - 2} = ?$ (a) 21 (b) $\sqrt{363}$ (c) 361

(d) 19 (e) None of these

333. $\sqrt{625} - \sqrt{529} = \sqrt{?}$ (a) $\sqrt{2}$ (b) 4 (c) 2

(d) 16 (e) None of these

334. $68.032 - 13.108 - 17.096 = ?$

(a) 37.628 (b) 38.728 (c) 37.836

(d) 38.526 (e) None of these

335. $1\frac{1}{6} - 1\frac{1}{9} + 1\frac{1}{54} = ?$ (a) $1\frac{1}{54}$ (b) $1\frac{2}{27}$ (c) $1\frac{1}{27}$ (d) $1\frac{5}{54}$ (e) None of these

336. 32% of 350 = 73 + ?

(a) 49 (b) 39 (c) 42

(d) 185 (e) None of these

337. $92 \times 7 \div 8 - 63.80 = ?$

(a) 16.6 (b) 18.7 (c) 17.7

(d) 16.7 (e) None of these

338. 26% of 320 - 62.70 + 33.50 = ?

(a) 54 (b) 64 (c) 66

(d) 44 (e) None of these

339. $36.934 - 48 + 17.449 = ?$

(a) 6.833 (b) 8.633 (c) 6.283

(d) 7.383 (e) None of these

340. $64 \times 16 \div 256 = (4)^{(? - 3)}$

(a) 1 (b) 4 (c) 5

(d) 3 (e) None of these

341. $\frac{(?)^{1/4}}{8} = \frac{48}{(?)^{3/4}}$

(a) 384 (b) 484 (c) 22

(d) 18 (e) None of these

342. $11.573 + 27.492 - 19.674 = ?$

(a) 19.491 (b) 21.581 (c) 18.671

(d) 19.391 (e) None of these

343. $(22.4 \times 6 \times 5) \div 12 - 65 = ?$

(a) -8 (b) 9 (c) 17

(d) -16 (e) None of these

344. $\sqrt{529} + (3)^3 - (6)^2 = (?)^2$ (a) $\sqrt{14}$ (b) 196 (c) 14

(d) 28 (e) None of these

345. $(3^2 \times 4^2 \times 5) \div 36 = (?)^2 - 80$ (a) $(100)^2$ (b) $\sqrt{10}$ (c) 100(d) 10 (e) $10\sqrt{10}$ 346. $2\frac{1}{4} + 1\frac{1}{3} - 4\frac{1}{2} = ?$ (a) $-1\frac{1}{12}$ (b) $\frac{11}{12}$ (c) $-\frac{11}{12}$ (d) $1\frac{1}{12}$ (e) None of these

347. 26% of 450 - ? = 12% of 150

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080**Madurai:** #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

- (a) 101 (b) 135 (c) 89
(d) 99 (e) None of these
348. $(16 \times 5) - (5 \times 4) - 52 = ? \div 4$
(a) 4 (b) 45 (c) 32
(d) 2 (e) None of these
349. $73.96 - 18.19 + 17.47 = ? + 10.91$
(a) 62.33 (b) 61.43 (c) 56.33
(d) 54.53 (e) None of these
350. $0.6 \times 1.4 \div 0.5 \times 15 = ?$
(a) 28.2 (b) 18.2 (c) 24.5
(d) 16.4 (e) None of these
351. $(\sqrt{6} + 1)^2 = ? + 2\sqrt{6}$
(a) 7 (b) $\sqrt{6}$ (c) $4\sqrt{6} + 7$
(d) $4\sqrt{6}$ (e) None of these
352. $15\% \text{ of } 640 - 16\% \text{ of } 750 = ?$
(a) -24 (b) -16 (c) 26
(d) 16 (e) None of these
353. $545 - 354 + 434 = ? + (8)^2$
(a) 541 (b) 652 (c) 561
(d) 632 (e) None of these
354. $(2 \times 3)^4 \div (9 \times 4) \div 4 = ?$
(a) 3 (b) 9 (c) 6
(d) 12 (e) None of these
355. $22.5 \times 32.4 \div 4.5 = ?$
(a) 164 (b) 152 (c) 156
(d) 166 (e) None of these
356. $\frac{5}{12} \text{ of } 56\% \text{ of } 750 = ?$
(a) 160 (b) 155 (c) 165
(d) 170 (e) None of these
357. $\frac{96}{16} \times \frac{64}{21} \div \frac{60}{42} = ?$
(a) $12\frac{1}{5}$ (b) $12\frac{3}{5}$ (c) $12\frac{4}{5}$
(d) $12\frac{2}{5}$ (e) None of these
358. $0.5 \times 5.6 \div 0.5 \times 15 = ?$
(a) 94 (b) 82 (c) 48
(d) 86 (e) None of these
359. $(161 - 231) \div 7 = ? \div (-4)$
(a) 10 (b) -10 (c) -40
(d) 40 (e) None of these
360. $\frac{(?)^{2/3}}{42} = \frac{5}{(?)^{1/3}}$
(a) 20 (b) 210 (c) $10\sqrt{2}$
(d) 10 (e) $\sqrt{20}$
361. $\sqrt{1764} \times \sqrt{576} + (4)^2 = (?)^2$
(a) 32 (b) 36 (c) 28
(d) 24 (e) 26
362. $120 \div 24 \times 36 + 8 = ?$
(a) 188 (b) 180 (c) 184
(d) 182 (e) None of these
363. $48\% \text{ of } 350 \times \frac{3}{4} = ?$
(a) 42 (b) 128 (c) 126
(d) 48 (e) None of these
364. $\frac{25 \times 90}{12\% \text{ of } 250} = ?$
(a) 50 (b) 80 (c) 75
(d) 45 (e) None of these
365. $12.5\% \text{ of } 350 \times 8.4\% \text{ of } 250 = ?$
(a) 831.25 (b) 913.50 (c) 918.75
(d) 1050 (e) None of these
366. $7008 \div 24 + 6208 \div 16 = ?$
(a) 640 (b) 720 (c) 700
(d) 690 (e) None of these
367. $3352 + 3331 + 3109 + 3456 = 28810 - ?$
(a) 13748 (b) 15602 (c) 13478
(d) 15562 (e) None of these
368. $55\% \text{ of } 560 - 28\% \text{ of } ? = 229.6$
(a) 250 (b) 260 (c) 300
(d) 320 (e) None of these
369. $6850 \div 25 \div ? - 24 = 30.8$
(a) 4 (b) 10 (c) 6
(d) 5 (e) None of these
370. $75 \times \sqrt{841} \div 15 = ?$
(a) 135 (b) 145 (c) 125
(d) 115 (e) None of these
371. $\frac{3.2 \times 1.4 \times 5.5}{0.4} = ?$
(a) 24.64 (b) 61.60 (c) 26.46
(d) 60.61 (e) None of these
372. $113698 - 105697 - 3058 = ?$
(a) 4493 (b) 4934 (c) 4943
(d) 4953 (e) None of these
373. $25.4 \times 12.5 + ? = 354$
(a) 34 (b) 35.5 (c) 35
(d) 36.5 (e) None of these
374. $(8)^2 + (9)^2 + (4)^2 = ?$
(a) 221 (b) 441 (c) 201
(d) 159 (e) None of these

R.A.C.E**Rapid Academy of Competitive Exams**

375. $\frac{6.5}{0.13} = ?$
 (a) 0.05 (b) 0.5 (c) 5
 (d) 50 (e) None of these
376. $744 \div ? - 13 = 18$
 (a) 24 (b) 20 (c) 18
 (d) 28 (e) None of these
377. $\sqrt{625} + \sqrt{576} = ?$
 (a) 49 (b) 8 (c) 54
 (d) 7 (e) None of these
378. $17 \times 9 \times 4 = ?$
 (a) 612 (b) 621 (c) 516
 (d) 561 (e) None of these
379. $8\frac{1}{3} + 7\frac{1}{2} - \frac{1}{3} = ?$
 (a) $10\frac{2}{3}$ (b) $15\frac{1}{3}$ (c) $10\frac{1}{2}$
 (d) $16\frac{1}{2}$ (e) None of these
380. $99.99 + 666.66 = ?$
 (a) 728.59 (b) 766 (c) 766.65
 (d) 676.95 (e) None of these
381. 20% of 40 = ?
 (a) 8 (b) 13 (c) 50
 (d) 15 (e) None of these
382. $\frac{52 \times 0.4 \times 4.5}{2 \times 3 \times 4} = ?$
 (a) 3.6 (b) 4.2 (c) 9.3
 (d) 8.3 (e) None of these
383. $\frac{1}{x} + x = ?$
 (a) $\frac{1+x}{x}$ (b) $\frac{1+x^2}{x}$ (c) $x^2 + 1$
 (d) $1 + x$ (e) None of these
384. 20% of 50 + 30% of 40 = ?
 (a) 15 (b) 18 (c) 22
 (d) 20 (e) None of these
385. $\frac{16 \times 2 + 4.5 \times 2}{?} = \frac{1}{8}$
 (a) 246 (b) 480 (c) 348
 (d) 369 (e) None of these
386. $74 \times 25 - 33 \times 45 = ?$
 (a) 385 (b) 365 (c) 345
 (d) 325 (e) None of these
387. ? % of 220 = 99
 (a) 45 (b) 55 (c) 35
 (d) 40 (e) None of these
388. $7.8745 - 4.9352 = ?$
 (a) 3.4156 (b) 3.1412 (c) 2.9393
 (d) 2.3949 (e) None of these
389. $\frac{1}{5}$ of $\frac{1}{2}$ of $\frac{1}{3}$ of ? = 19
 (a) 570 (b) 750 (c) 273
 (d) 372 (e) None of these
390. ?% of 84 = 10.08
 (a) 11 (b) 10 (c) 14
 (d) 12 (e) None of these
391. $x^2 \times x^3 = ?$
 (a) x^2 (b) x^3 (c) x^6
 (d) x^4 (e) None of these
392. $(408 + 220 + 102) \div 240 - ? - 57 = 29.2$
 (a) 156 (b) 154 (c) 158
 (d) 152 (e) None of these
393. ?% of 4500 = 3000 - 480
 (a) 65 (b) 53 (c) 56
 (d) 58 (e) None of these
394. $\frac{17}{19} \times \frac{53}{221} \times \frac{91}{106} = ?$
 (a) $\frac{7}{38}$ (b) $\frac{5}{83}$ (c) $\frac{7}{33}$
 (d) $\frac{5}{38}$ (e) None of these
395. $(343 - 103) \div (216 \div 36) = ?$
 (a) 30 (b) 40 (c) 32
 (d) 42 (e) None of these
396. $5^2 \times 25^3 \times 625 = (5)^?$
 (a) 11 (b) 10 (c) 13
 (d) 12 (e) None of these
397. $3\frac{1}{4} + 2\frac{1}{2} + 6\frac{1}{6} = ?$
 (a) $13\frac{11}{12}$ (b) $11\frac{11}{12}$ (c) $12\frac{11}{12}$
 (d) $15\frac{11}{12}$ (e) None of these
398. $\sqrt{5^2 \times 7^2 + 12^2} = ?$
 (a) 37 (b) 35 (c) 36
 (d) 34 (e) None of these
399. $\frac{3}{4}$ th of 35% of ? = 1328.25
 (a) 5600 (b) 5080 (c) 5006
 (d) 5800 (e) None of these
400. $(\sqrt{5} - 1)^2 = ? - 2\sqrt{5}$
 (a) 6 (b) $6 + 2\sqrt{5}$ (c) $6\sqrt{5}$
 (d) $6 - 2\sqrt{5}$ (e) None of these
401. $(8)^{20}\%$ of ? = 723 + 45
 (a) 1200 (b) 1400 (c) 1100
 (d) 1020 (e) None of these
402. $(0.027)^2 \times (0.09)^2 \div (0.3)^6 = 0.3^?$

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

- (a) 3 (b) 2 (c) 5
(d) 6 (e) None of these
403. $556 - 441 + 223 - 112 = ?$
(a) 262 (b) 222 (c) 226
(d) 266 (e) None of these
404. $28 + 369 \div 9 = ?$
(a) 72 (b) 63 (c) 65
(d) 69 (e) None of these
405. $\sqrt{1521} \div 3 \times 12 = ?$
(a) 158 (b) 165 (c) 167
(d) 156 (e) None of these
406. $19.673 - 12.235 + 15.224 + 10.111 = ?$
(a) 32.773 (b) 37.223 (c) 33.772
(d) 34.773 (e) None of these
407. $958 \times 63 \div 3^2 = ?$
(a) 7606 (b) 6706 (c) 6760
(d) 6607 (e) None of these
408. $(450 \div 30)^2 - (12)^2 = (?)^2$
(a) 9^2 (b) -9^2 (c) $\sqrt{9}$
(d) 81 (e) None of these
409. $35\% \text{ of } 740 - 35\% \text{ of } 520 = ?$
(a) 78 (b) 71 (c) 75
(d) 77 (e) None of these
410. $3\frac{2}{3} \times 4\frac{1}{3} \times 1\frac{4}{7} \div \frac{11}{12} = ?$
(a) $27\frac{4}{21}$ (b) $26\frac{5}{21}$ (c) $27\frac{5}{21}$
(d) $26\frac{4}{21}$ (e) None of these
411. $791.52 + 463.88 - 540.25 = ?$
(a) 725.25 (b) 711.11 (c) 735.35
(d) 715.15 (e) None of these
412. $52\% \text{ of } ? - 29 = 309$
(a) 640 (b) 560 (c) 550
(d) 650 (e) None of these
413. $55 \times 6 \div 5 - 30 = (?)^2$
(a) -6 (b) -36 (c) $\sqrt{6}$
(d) $(36)^2$ (e) $-\sqrt{6}$
414. $? \% \text{ of } 850 + 541 = 1255$
(a) 74 (b) 84 (c) 58
(d) 78 (e) None of these
415. $67.39 - 11.78 + 19.63 = ? + 22.41$
(a) 52.73 (b) 52.83 (c) 65.78
(d) 64.78 (e) None of these
416. $(15 \times 7) - (6 \times 3) - 63 = ? \times 6$
(a) 4 (b) 16 (c) 144
(d) 132 (e) None of these
417. $\sqrt{576} + \sqrt{841} = \sqrt{?}$
(a) 2890 (b) 2098 (c) 2909
(d) 2809 (e) None of these
418. $1\frac{1}{5} - 1\frac{1}{10} + 1\frac{1}{4} = ?$
(a) $1\frac{3}{10}$ (b) $1\frac{3}{20}$ (c) $2\frac{7}{10}$
(d) $1\frac{7}{20}$ (e) None of these
419. $\frac{5}{19}$ of 57% of 480 = ?
(a) 64 (b) 48 (c) 72
(d) 78 (e) None of these
420. $\sqrt{12^2 + 5^2} \times 2 = ?$
(a) 26 (b) 28 (c) 29
(d) 23 (e) None of these
421. $\frac{7}{12} - \frac{3}{4} + \frac{2}{3} = ?$
(a) $\frac{5}{6}$ (b) $\frac{5}{12}$ (c) $\frac{1}{2}$
(d) $\frac{1}{6}$ (e) None of these
422. $22\% \text{ of } 250 + 35\% \text{ of } 460 = ?$
(a) 216 (b) 226 (c) 232
(d) 242 (e) None of these
423. $(855 - 653) \times 3^2 = ?$
(a) 1881 (b) 1188 (c) 1818
(d) 1811 (e) None of these
424. $34 \times 16 \div 5 - 58.8 = ?$
(a) 40 (b) 35.2 (c) 50
(d) 44.2 (e) None of these
425. $\sqrt{96} \times 12 \div 18 + 26 - 9 = ?$
(a) 81 (b) $(81)^2$ (c) 3
(d) 9 (e) None of these
426. $(69 - 115) \div 23 = ? \div (-8)$
(a) 24 (b) -16 (c) -24
(d) 16 (e) None of these
427. $(13)^2 - (5)^3 - \sqrt{676} + 7 = (?)^2$
(a) 10 (b) 20 (c) $\sqrt{5}$
(d) 25^2 (e) 5
428. $(12 \times 7) - (13 \times 5) - 10 = ? \div 5$
(a) $1\frac{4}{5}$ (b) 25 (c) $1\frac{3}{5}$
(d) 90 (e) None of these
429. $\frac{7}{15}$ of $\frac{5}{12}$ of 540 = ?
(a) 160 (b) 150 (c) 210
(d) 105 (e) None of these
430. $45 \times 24 \div 12 - 35 = ? - 153$

R.A.C.E**Rapid Academy of Competitive Exams**

- (a) 208 (b) 218 (c) 145
(d) 155 (e) None of these
431. $\frac{3}{11}$ of 77% of 800 = ?
(a) 148 (b) 168 (c) 218
(d) 228 (e) None of these
432. $\frac{(?)^{5/3}}{45} = \frac{5}{(?)^{1/3}}$
(a) 15 (b) $(225)^2$ (c) 225
(d) $\sqrt{15}$ (e) $\sqrt{45}$
433. $0.4 \times 7.5 \div 0.6 \times 25 = ?$
(a) 125 (b) 155 (c) 115
(d) 145 (e) None of these
434. $635 - 345 + 246 = ? + (15)^2$
(a) 415 (b) 411 (c) 315
(d) 321 (e) None of these
435. $3353 - 7855 + 9498 = ? + 2233$
(a) 2673 (b) 2763 (c) 3534
(d) 3453 (e) None of these
436. $15.96 - 42.94 + 75.17 = ?$
(a) 48.19 (b) 48.36 (c) 44.36
(d) 45.29 (e) None of these
437. $566.91 + 551.34 + 114.98 = ?$
(a) 1233.23 (b) 1222.33 (c) 1223.45
(d) 1235.88 (e) None of these
438. $? \times \sqrt{144} = 311 \times 24$
(a) 622 (b) 624 (c) 633
(d) 634 (e) None of these
439. $4561 + 3254 = 5422 + ?$
(a) 2339 (b) 2933 (c) 2398
(d) 2393 (e) None of these
440. 45% of 816 - 23% of ? = 240.7
(a) 525 (b) 540 (c) 550
(d) 560 (e) None of these
441. $\frac{9}{13} \div \frac{162}{325} = ?$
(a) $1\frac{5}{18}$ (b) $2\frac{7}{18}$ (c) $1\frac{7}{17}$
(d) $1\frac{7}{18}$ (e) None of these
442. $(16)^3 \times 4^3 \div 1024 = (4)^?$
(a) 3 (b) 4 (c) 5
(d) 6 (e) None of these
443. $(16)^2 - 5^3 + \sqrt{169} = (?)^2$
(a) 12^2 (b) 14 (c) $\sqrt{12}$
(d) $(144)^2$ (e) None of these
444. $7777 \div 35 = ?$
(a) 242.2 (b) 225.2 (c) 228.2
(d) 222.2 (e) None of these
445. $122 \times 252 - 12234 = ?$
(a) 18150 (b) 18510 (c) 18520
(d) 18501 (e) None of these
446. $\frac{(?)^{1.3}}{45} = \frac{75}{(?)^{1.7}}$
(a) 25 (b) -15 (c) -25
(d) 17 (e) None of these
447. $0.2 \times 222 \div 20 \times 12 = ?$
(a) 26.64 (b) 28.36 (c) 24.88
(d) 22.62 (e) None of these
448. $\frac{(?)^{3/5}}{33} = \frac{3}{(?)^{2/5}}$
(a) $(99)^2$ (b) $\sqrt{93}$ (c) $3\sqrt{11}$
(d) 99 (e) None of these
449. $(26.3 \times 12 \times 20) \div 3 + 125 = ?$
(a) 2229 (b) 2292 (c) 2223
(d) 2227 (e) None of these
450. 18.2% of 890 = ?
(a) 168.91 (b) 163.98 (c) 165.91
(d) 161.98 (e) None of these
451. $3434 + 7979 - 2323 = ?$
(a) 9191 (b) 9190 (c) 9091
(d) 9099 (e) None of these
452. $892.33 + 212.87 + 456.99 = ?$
(a) 1568.23 (b) 1566.99 (c) 1564.73
(d) 1561.19 (e) None of these
453. $\sqrt{676} + \sqrt{1024} = ?$
(a) 58 (b) 56 (c) 52
(d) 54 (e) None of these
454. 18% of 255 + ?% of 600 = 255.9
(a) 35 (b) 38 (c) 45
(d) 44 (e) None of these
455. $(15)^2 + (12)^2 - (18)^2 = ?$
(a) 42 (b) 43 (c) 48
(d) 49 (e) None of these
456. $32.97 + 45.33 + 17.24 = ?$
(a) 95.54 (b) 98.33 (c) 91.62
(d) 93.84 (e) None of these
457. $5642.36 + 237.35 + 522.93 = ? + 3990.35$
(a) 2418.76 (b) 2416.45 (c) 2415.29
(d) 2411.23 (e) None of these
458. $86 \times 5.6 \times 0.3 = ?$
(a) 144.48 (b) 149.34 (c) 145.26

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

- (d) 146.76 (e) None of these
459. $23578 + 33872 + 17193 - 52559 = ?$
 (a) 22088 (b) 22086 (c) 22082
 (d) 22084 (e) None of these
460. $\frac{3}{8} + \frac{7}{8} - \frac{5}{12} = ?$
 (a) $\frac{3}{5}$ (b) $\frac{7}{6}$ (c) $\frac{5}{6}$
 (d) $\frac{5}{7}$ (e) None of these
461. $434.23 + 21.56 + 63.89 = ?$
 (a) 515.75 (b) 519.68 (c) 517.53
 (d) 511.74 (e) None of these
462. $\frac{3}{4}$ th of 46% of 400 - 12 = ?
 (a) 126 (b) 128 (c) 124
 (d) 122 (e) None of these
463. $45 \times 253 - 782 = ?$
 (a) 10602 (b) 10605 (c) 10607
 (d) 10603 (e) None of these
464. $\frac{1}{5}$ th of $\frac{1}{3}$ rd of $\frac{3}{4}$ th of 15000 = ?
 (a) 745 (b) 755 (c) 740
 (d) 750 (e) None of these
465. 42% of ? + 18% of 400 = 219
 (a) 370 (b) 360 (c) 350
 (d) 340 (e) None of these
466. 25% of $\sqrt{3844} = ?$
 (a) 16.8 (b) 15.5 (c) 18.3
 (d) 13.7 (e) None of these
467. $\frac{7}{15} + 12 + \frac{2}{3} = ?$
 (a) $13\frac{4}{15}$ (b) $12\frac{2}{15}$ (c) $12\frac{4}{15}$
 (d) $13\frac{2}{15}$ (e) None of these
468. $(19)^2 + (28)^2 - (16)^2 = ?$
 (a) 889 (b) 888 (c) 883
 (d) 885 (e) None of these
469. $\frac{16 \times 426}{24\% \text{ of } 200} = ?$
 (a) 145 (b) 143 (c) 147
 (d) 146 (e) None of these
470. $\sqrt[3]{32768} = ?$
 (a) 38 (b) 34 (c) 36
 (d) 32 (e) None of these
471. $\frac{3}{4}$ th of 24% of 400 - 32 = ?
 (a) 50 (b) 45 (c) 40
 (d) 55 (e) None of these
472. $\frac{8}{15} + \frac{2}{5} - \frac{1}{3} = ?$
 (a) $\frac{3}{7}$ (b) $\frac{2}{5}$ (c) $\frac{3}{8}$
 (d) $\frac{3}{5}$ (e) None of these
473. $451.34 + 322.69 - 242.88 = ?$
 (a) 533.33 (b) 551.15 (c) 531.15
 (d) 539.34 (e) None of these
474. $12 \times \sqrt{4225} + 212 = ?$
 (a) 993 (b) 995 (c) 991
 (d) 999 (e) None of these
475. $\frac{(?)^{1.2}}{54} = \frac{108}{(?)^{1.8}}$
 (a) 17 (b) 18 (c) 19
 (d) 16 (e) None of these
476. $\frac{11}{16} \times \frac{80}{99} \times \frac{12}{25} = ?$
 (a) $\frac{7}{13}$ (b) $\frac{4}{13}$ (c) $\frac{7}{15}$
 (d) $\frac{4}{15}$ (e) None of these
477. $\frac{1}{5}$ th of $\frac{3}{4}$ th of $\frac{2}{5}$ th of 6000 = ?
 (a) 360 (b) 330 (c) 370
 (d) 350 (e) None of these
478. $3535 \div 25 = ?$
 (a) 145.3 (b) 143.7 (c) 144.6
 (d) 141.4 (e) None of these
479. $5^6 \times (25)^2 \div 625 = 5^?$
 (a) 8 (b) 5 (c) 6
 (d) 9 (e) None of these
480. $4500 \div 18 - 122 = ? \times 4$
 (a) 32 (b) 26 (c) 28
 (d) 34 (e) None of these
481. $-17 - 94 - 22 - 39 + 627 = ?$
 (a) 454 (b) 455 (c) 458
 (d) 451 (e) None of these
482. $69.69 - 51.54 + 73.65 = ? + 32.42$
 (a) 47.44 (b) 53.88 (c) 58.38
 (d) 44.74 (e) None of these
483. $\frac{3}{21}$ of $\frac{9}{11}$ of 693 = ?
 (a) 72 (b) 82 (c) 91
 (d) 71 (e) None of these
484. $(0.8 \times 8800 \div 16) \times 4 = ?$
 (a) 1750 (b) 1756 (c) 1766
 (d) 1760 (e) None of these
485. $(23 - 135) \div 4 = ? \div (-6)$
 (a) 7 (b) 168 (c) -168

R.A.C.E**Rapid Academy of Competitive Exams**

- (d) -7 (e) None of these
486. $0.6 \times 2.5 \div 0.6 \times 18 = ?$
(a) 52 (b) 55 (c) 42
(d) 45 (e) None of these
487. $1\frac{1}{3} - 1\frac{1}{9} + 1\frac{1}{6} = ?$
(a) $1\frac{5}{18}$ (b) $1\frac{7}{18}$ (c) $2\frac{1}{9}$
(d) $1\frac{4}{9}$ (e) None of these
488. $1\frac{4}{5} + 3\frac{2}{5} + 2\frac{2}{3} = ?$
(a) $7\frac{14}{15}$ (b) $6\frac{13}{15}$ (c) $13\frac{1}{15}$
(d) $6\frac{14}{15}$ (e) None of these
489. $(15)^2 - (5)^3 + \sqrt{625} + 44 = (?)^2$
(a) $\sqrt{17}$ (b) 17 (c) $\sqrt{13}$
(d) 13 (e) None of these
490. $(4)^4 \div (16)^3 \times 256 = 4^{(? - 6)}$
(a) 3 (b) 5 (c) 9
(d) 5 (e) None of these
491. $\frac{16}{29} \times \frac{87}{128} \times \frac{16}{21} = ?$
(a) $\frac{2}{7}$ (b) $\frac{3}{7}$ (c) $\frac{2}{9}$
(d) $\frac{3}{8}$ (e) None of these
492. $54 \times 15 \div 6 - 64 = ? - 119$
(a) 180 (b) 170 (c) 190
(d) 200 (e) None of these
493. $\frac{5}{12} + \frac{5}{36} + \frac{5}{24} = ?$
(a) $\frac{55}{72}$ (b) $\frac{11}{72}$ (c) $\frac{7}{36}$
(d) $\frac{11}{36}$ (e) None of these
494. $46813 + 32298 - 13234 - 31112 = ?$
(a) 34764 (b) 34767 (c) 134766
(d) 34765 (e) None of these
495. $\frac{4}{15}$ of 75% of 440 = ?
(a) 68 (b) 76 (c) 66
(d) 88 (e) None of these
496. $\sqrt{52 \times 27 \div 6 + 26 - 4} = ?$
(a) $\sqrt{24}$ (b) $(16)^2$ (c) 24
(d) $\sqrt{16}$ (e) None of these
497. 45% of $\frac{6}{7}$ of (420) = ?
(a) 162 (b) 154 (c) 148
(d) 178 (e) None of these
498. $0.9 \times 5.2 \div 0.2 \times 25 = ? + 120$
(a) 475 (b) 585 (c) 465
(d) 575 (e) None of these
499. $3624 \div 4 + 18 = ? \times 14$
(a) 54 (b) 64 (c) 66
(d) 58 (e) None of these
500. $(766 - 634) \div 12 = ? \div (-7)$
(a) $\frac{9}{7}$ (b) -77 (c) -11
(d) $-\frac{11}{7}$ (e) None of these
501. $17^{3.5} \times 17^? = 17^8$
(a) 4.5 (b) 2.29 (c) 2.75
(d) 4.25 (e) None of these
502. $21^2 \div 49 \times 6 = ?$
(a) 2.4 (b) 1.5 (c) 54
(d) 36 (e) None of these
503. 60% of 250 + 25% of 600 = ?
(a) 150 (b) 240 (c) 250
(d) 180 (e) None of these
504. 150% of ? = 375
(a) 450 (b) 750 (c) 250
(d) 350 (e) None of these
505. 35% of 250 + ? = 345
(a) 257.5 (b) 305.5 (c) 235.25
(d) 255.75 (e) None of these
506. $46.25 \times 18 + 7.50 = ?$
(a) 299.75 (b) 295.5 (c) 300
(d) 306.25 (e) None of these
507. $22.05 \times 4.5 = ?$
(a) 990.225 (b) 90.225 (c) 992.25
(d) 99.225 (e) None of these
508. $2\frac{3}{5} \times 8\frac{1}{3} + 7\frac{1}{6} \times 2\frac{2}{5} = ?$
(a) $32\frac{8}{15}$ (b) $38\frac{13}{15}$ (c) $36\frac{3}{5}$
(d) $34\frac{3}{5}$ (e) None of these
509. $5 \times ? = 23.5$
(a) 4.8 (b) 4.7 (c) 4.85
(d) 4.65 (e) None of these
510. $\frac{2}{5} + \frac{3}{13} + \frac{4}{13} = ?$
(a) $\frac{61}{65}$ (b) $\frac{9}{13}$ (c) $\frac{9}{31}$
(d) $\frac{31}{61}$ (e) None of these
511. $\frac{1}{\sqrt{4624}} \times 34 = ?$
(a) $\frac{3}{2}$ (b) $\frac{2}{3}$ (c) $\frac{3}{4}$
(d) $\frac{4}{3}$ (e) None of these

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

512. $(3692 + 1863 + 2410) \div 125 = ?$
 (a) 63.82 (b) 63.92 (c) 63.42
 (d) 63.72 (e) None of these
513. $\sqrt{7} - 44 = 25$
 (a) 4671 (b) 4771 (c) 1100
 (d) 2200 (e) None of these
514. $? \times 19 = 4750$
 (a) 25 (b) 2500 (c) 270
 (d) 250 (e) None of these
515. $436.729 - 211.116 - 107.102 = ?$
 (a) 108.411 (b) 218.501 (c) 117.412
 (d) 118.511 (e) None of these
516. $\sqrt{225} + \sqrt{256} = ?$
 (a) 15 (b) 16 (c) 240
 (d) 41 (e) None of these
517. $876.23 + 729.49 = ?$
 (a) 1600.72 (b) 1505.22 (c) 1605.72
 (d) 1402.22 (e) None of these
518. $2860 - 1320 - 1259 = ?$
 (a) 271 (b) 251 (c) 261
 (d) 281 (e) None of these
519. $\frac{4}{5}$ of 460 + $\frac{3}{4}$ of 220 = ?
 (a) 530 (b) 533 (c) 532
 (d) 534 (e) None of these
520. $628 \div ? = 125.6$
 (a) 5 (b) 3 (c) 4.8
 (d) 2.5 (e) None of these
521. $\frac{2}{5} \times \frac{7}{8} \times ? = \frac{7}{15}$
 (a) $\frac{3}{4}$ (b) $\frac{2}{5}$ (c) $\frac{4}{5}$
 (d) $1\frac{1}{3}$ (e) None of these
522. $10\frac{4}{3} + 11\frac{1}{4} - 5\frac{1}{12} = ?$
 (a) $16\frac{1}{3}$ (b) $17\frac{2}{3}$ (c) $14\frac{2}{3}$
 (d) $14\frac{1}{3}$ (e) None of these
523. $57.63 - 37.26 = 39.27 - ?$
 (a) 18.90 (b) 18.54 (c) 19.73
 (d) 19.54 (e) None of these
524. $(87324 - 79576) \times 15 = ?$
 (a) 1162.2 (b) 116220 (c) 1372.2
 (d) 1163.7 (e) None of these
525. $\sqrt{8464} + \sqrt{?} = 102$
 (a) 225 (b) 100 (c) 400
 (d) 625 (e) None of these
526. 12% of 550 + ?% of 320 = 82
 (a) 6 (b) 8 (c) 5
 (d) 9 (e) None of these
527. $\frac{1}{9}$ of $\frac{1}{6}$ of 56052 = ?
 (a) 356 (b) 336 (c) 376
 (d) 346 (e) None of these
528. $\sqrt{1089} + \sqrt{289} = \sqrt{?}$
 (a) 625 (b) 50 (c) 25
 (d) 1378 (e) None of these
529. $986.23 + 7.952 + 8176.158 = ?$
 (a) 9170.340 (b) 9169.230 (c) 9241.908
 (d) 9170.762 (e) None of these
530. $764521 - 642436 + 179380 = ?$
 (a) 301465 (b) 301468 (c) 301488
 (d) 301456 (e) None of these
531. $685.59 - ? = 607.88 - 351.46$
 (a) 449.28 (b) 419.17 (c) 429.17
 (d) 439.28 (e) None of these
532. $\frac{7}{8} \times \left(\frac{47+17}{22+27}\right) + \frac{1}{2} = ?$
 (a) $\frac{22}{13}$ (b) $\frac{14}{23}$ (c) $\frac{23}{15}$
 (d) $\frac{16}{21}$ (e) None of these
533. $\frac{1}{2}$ of $\frac{2}{3}$ of $\frac{4}{8}$ of 3750 = ?
 (a) 625 (b) 312.5 (c) 125
 (d) 250 (e) None of these
534. $235 + 75 \times 8 = ?$
 (a) 2480 (b) 835 (c) 1955
 (d) 2840 (e) None of these
535. $11.88 \times \frac{250}{18} = ?$
 (a) 16.50 (b) 155 (c) 192.7
 (d) 165 (e) None of these
536. $7776 \div 18 \times 3 = ?$
 (a) 144 (b) 1926 (c) 1296
 (d) 1266 (e) None of these
537. $2412 + 1139 + 5498 = ?$
 (a) 8949 (b) 9049 (c) 8749
 (d) 9249 (e) None of these
538. $916.28 - 72.4 = 728.2 + ?$
 (a) 115.86 (b) 125.68 (c) 215.68
 (d) 216.04 (e) None of these
539. 87% of 565 = ?
 (a) 490.45 (b) 491.55 (c) 489.05

R.A.C.E**Rapid Academy of Competitive Exams**

- (d) 493.35 (e) None of these
 540. 52% of 666 + ? = 500
 (a) 138.53 (b) 168.46 (c) 144.54
 (d) 153.68 (e) None of these
 541. ? of (18% of 250 + 25% of 144) = 54
 (a) $\frac{2}{3}$ (b) $\frac{3}{2}$ (c) $\frac{4}{9}$
 (d) $\frac{1}{3}$ (e) None of these
 542. $\frac{3}{5}$ of $\frac{3}{4}$ of $\frac{5}{6}$ of 992 = ?
 (a) 388 (b) 390 (c) 372
 (d) 376 (e) None of these
 543. $\sqrt{7} + 17 = \sqrt{961}$
 (a) 169 (b) 256 (c) 225
 (d) 196 (e) None of these
 544. $\frac{1}{2} \times \frac{3}{4} \div \left(\frac{9}{2} \times \frac{5}{8}\right) = ?$
 (a) $\frac{5}{96}$ (b) $\frac{15}{8}$ (c) $\frac{5}{108}$
 (d) $\frac{12}{5}$ (e) None of these
 545. $14^{13} \times 14^3 = ?$
 (a) 14^{39} (b) 14^7 (c) 14^{16}
 (d) 14^{10} (e) None of these
 546. $1719 \div 18 = ?$
 (a) 95.5 (b) 96 (c) 97.5
 (d) 99 (e) None of these
 547. $8\frac{2}{5} \div 10\frac{2}{25} = ?$
 (a) $\frac{5}{6}$ (b) $\frac{7}{8}$ (c) $\frac{4}{5}$
 (d) $\frac{3}{4}$ (e) None of these
 548. $3.2 \times 6.8 \times 9.5 = ?$
 (a) 207.62 (b) 202.67 (c) 206.27
 (d) 207.72 (e) None of these
 549. $\sqrt{7} - 63 = 9^2$
 (a) 12 (b) 144 (c) 324
 (d) 128 (e) None of these
 550. $21.25 + 22.52 + 212.22 = ?$
 (a) 256.99 (b) 245.99 (c) 252.99
 (d) 258.99 (e) None of these
 551. $9441 + 3991 - 606 = ? \times 53$
 (a) 236 (b) 238 (c) 230
 (d) 234 (e) None of these
 552. $(331 + 19) \times (15 - 11) \times (37 + 13) = ?$
 (a) 70000 (b) 4131 (c) 30250
 (d) 20350 (e) None of these
 553. $58369 + 69521 = ? + 31972$
 (a) 95998 (b) 95189 (c) 95918
 (d) 95981 (e) None of these
 554. 65% of 480 = ?% of 750
 (a) 40.4 (b) 41.6 (c) 46
 (d) 42.5 (e) None of these
 555. $[(11)^3 \times (15)^2] \div (25)^2 = ?$
 (a) 497.61 (b) 429.18 (c) 425
 (d) 479.16 (e) None of these
 556. $0.05 \times ? + 3.6 = 3.63$
 (a) 1.66 (b) 0.06 (c) 0.03
 (d) 0.6 (e) None of these
 557. $580 \times ? + 155 = 300$
 (a) 4 (b) 0.25 (c) 1.25
 (d) 2 (e) None of these
 558. $(?)^2 \times 25 = (385)^2$
 (a) 55 (b) 5929 (c) 66
 (d) 4356 (e) None of these
 559. $\frac{4}{5}$ of $\frac{4}{7}$ of $\frac{5}{6}$ of 1218 = ?
 (a) 415 (b) 384 (c) 492
 (d) 346 (e) None of these
 560. $2140 + 140 + 40 - 1610 = ?$
 (a) 700 (b) 720 (c) 690
 (d) 710 (e) None of these
 561. $637 \div ? \times 3.5 = 9.1$
 (a) 245 (b) 325 (c) 275
 (d) 385 (e) None of these
 562. $774 \times 326 = ?$
 (a) 244584 (b) 253224 (c) 244854
 (d) 252324 (e) None of these
 563. $\frac{0.5 \times 6 + 2.5}{4.5 + 0.6 + 0.9} = ?$
 (a) 0.6 (b) 6 (c) 0.2
 (d) 4 (e) None of these
 564. $(58)^5 \times (58)^7 \div (58)^2 = (58)^?$
 (a) 12 (b) 6 (c) 8
 (d) 17.5 (e) None of these
 565. 93% of 456 = ?
 (a) 435.06 (b) 419.02 (c) 443.04
 (d) 424.08 (e) None of these
 566. $3495 + 2386 + 4172 = ?$
 (a) 10053 (b) 10153 (c) 10043
 (d) 10243 (e) None of these
 567. $7432 \div 32 \times ? = 2787$
 (a) 8 (b) 14 (c) 15

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

- (d) 12 (e) None of these
568. 32% of 395 - $?\%$ of 286 = 74.92
(a) 34 (b) 26 (c) 22
(d) 18 (e) None of these
569. $? \div 36 \times 12 = 276$
(a) 828 (b) 838 (c) 818
(d) 848 (e) None of these
570. $\sqrt[3]{103823} = ?$
(a) 49 (b) 51 (c) 45
(d) 37 (e) None of these
571. $128 \div 8 \div 0.4 = ?$
(a) 36 (b) 42 (c) 48
(d) 54 (e) None of these
572. 63% of 781 + $? = 666$
(a) 164.85 (b) 173.97 (c) 181.63
(d) 195.79 (e) None of these
573. 75% of 250 - $?\%$ of 380 = 54.5
(a) 32 (b) 25 (c) 35
(d) 40 (e) None of these
574. $445 \times 98 - 2005 = ?$
(a) 41056 (b) 41065 (c) 41506
(d) 41605 (e) None of these
575. $65963 + 78430 = ? + 49907$
(a) 94468 (b) 96448 (c) 94648
(d) 98446 (e) None of these
576. $\sqrt{2304} \times \sqrt{?} = 2832$
(a) 3249 (b) 3481 (c) 3721
(d) 3969 (e) None of these
577. $79845 - 64897 - 12343 = ?$
(a) 2575 (b) 2650 (c) 2605
(d) 2550 (e) None of these
578. $73669 + 12457 = ? + 25156$
(a) 69070 (b) 60480 (c) 67090
(d) 68240 (e) None of these
579. $7777 \div 77 \div 5 = ?$
(a) 50.5 (b) 18.5 (c) 22.4
(d) 15.2 (e) None of these
580. $6999 + 3555 - 2333 = ?$
(a) 8337 (b) 8444 (c) 7338
(d) 8221 (e) None of these
581. $47.7 \times 12.4 \times 8.6 = ?$
(a) 5708.423 (b) 5218.665 (c) 6180.656
(d) 5086.728 (e) None of these
582. $8878 - 4125 - 1157 = ?$
(a) 4185 (b) 3078 (c) 2186
(d) 3679 (e) None of these
583. $345 \div 23 \div 5 = ?$
(a) 3 (b) 3.5 (c) 2.5
(d) 2 (e) None of these
584. $4550 \div 25\%$ of $? = 130$
(a) 145 (b) 140 (c) 125
(d) 160 (e) None of these
585. $1895 - 225 \div 50 = ?$
(a) 1890.5 (b) 33.4 (c) 1880.5
(d) 34.5 (e) None of these
586. $6.4 \times 0.5 \times 0.2 = ?$
(a) 6.04 (b) 0.064 (c) 6.4
(d) 0.64 (e) None of these
587. $1193.85 \div (42 \times 1.5) = ?$
(a) 18.95 (b) 16.25 (c) 19.18
(d) 14.64 (e) None of these
588. 48% of 112 - $?\%$ of 88 = 45.4
(a) 4.2 (b) 9.5 (c) 11.4
(d) 7.8 (e) None of these
589. $? \div 48 \times 12 = 171$
(a) 684 (b) 566 (c) 698
(d) 596 (e) None of these
590. $27^2 \times 4^3 - 111^2 = ?$
(a) 33455 (b) 35334 (c) 34335
(d) 35344 (e) None of these
591. $5 \times ? = 9884 \div 16$
(a) 123.55 (b) 91.25 (c) 103.18
(d) 115.65 (e) None of these
592. $8529 - (49)^2 - 125 - 9^3 = ?$
(a) 5994 (b) 5274 (c) 7626
(d) 5922 (e) None of these
593. $3604 \div 53 \times ? = 2924$
(a) 61 (b) 45 (c) 41
(d) 59 (e) None of these
594. 26.5% of 488 = ?
(a) 205.65 (b) 211.72 (c) 145.67
(d) 129.32 (e) None of these
595. $7719 + 8725 + 9124 = ?$
(a) 21911 (b) 28388 (c) 20578
(d) 24964 (e) None of these
596. $36652 \div \sqrt{?} = 14 \times 9 + 61$
(a) 30276 (b) 34596 (c) 28561
(d) 38416 (e) None of these

R.A.C.E**Rapid Academy of Competitive Exams**

597. 64% of 460 = ?
 (a) 288 (b) 300.8 (c) 276
 (d) 294.4 (e) None of these
598. $88.8 \times 8.8 \times 0.08 = ?$
 (a) 625.152 (b) 62.5152 (c) 6.25152
 (d) 0.625152 (e) None of these
599. $16 + 19 \times 72 \div 12 = ?$
 (a) 210 (b) 140 (c) 160
 (d) 180 (e) None of these
600. $39 \times 528 \div 33 - 19 = ?$
 (a) 601 (b) 602 (c) 603
 (d) 604 (e) None of these
601. $15127 + 4323 - 825 = ? \times 25$
 (a) 625 (b) 745 (c) 714
 (d) 698 (e) None of these
602. $676.66 \times 0.76 + 06.66 - 76.76 = ?$
 (a) 444.1616 (b) 444.1515 (c) 444.1414
 (d) 444.1313 (e) None of these
603. $8\frac{1}{3} \div 10\frac{5}{6} = ?$
 (a) $\frac{5}{6}$ (b) $\frac{2}{3}$ (c) $\frac{10}{13}$
 (d) $\frac{11}{13}$ (e) None of these
604. $\sqrt{7} + 25 = \sqrt{4489}$
 (a) 1936 (b) 1444 (c) 1681
 (d) 1722 (e) None of these
605. 82% of 850 - $(?)^2 = (16)^2$
 (a) 30 (b) 27 (c) 24
 (d) 21 (e) None of these
606. $\frac{3}{10}$ of $\frac{4}{7}$ of $\frac{5}{8}$ of 616 = ?
 (a) 72 (b) 66 (c) 58
 (d) 44 (e) None of these
607. 56% of 616 - ?% of 482 = 103.96
 (a) 40 (b) 52 (c) 45
 (d) 50 (e) None of these
608. $45^3 \times 11^2 - 3320^2 = ?$
 (a) 3755 (b) 3745 (c) 3735
 (d) 3725 (e) None of these
609. $88916 + 31245 = ? + 58734$
 (a) 61417 (b) 61427 (c) 61437
 (d) 61447 (e) None of these
610. $65873 + 4289 - 3786 = ? + 15298$
 (a) 41500 (b) 42500 (c) 54250
 (d) 52450 (e) None of these
611. $3397 + 3401 = ? \times 66$
 (a) 100 (b) 102 (c) 104
 (d) 106 (e) None of these
612. $6.8 \times 8.8 \times 11.9 - 202.596 = ?$
 (a) 510.5 (b) 509.5 (c) 508.5
 (d) 507.5 (e) None of these
613. $15118 + 9238 - 1179 = ? \times 77$
 (a) 307 (b) 305 (c) 303
 (d) 301 (e) None of these
614. $556.65 + 65.65 + 56.65 = ?$
 (a) 676.05 (b) 678.95 (c) 682.55
 (d) 684.85 (e) None of these
615. $3\frac{3}{8} \times 4\frac{2}{5} + ? = 16$
 (a) $2\frac{3}{5}$ (b) $2\frac{3}{20}$ (c) $1\frac{3}{5}$
 (d) $1\frac{3}{20}$ (e) None of these
616. $801 \div 10 \div 0.45 = ?$
 (a) 172 (b) 178 (c) 174
 (d) 176 (e) None of these
617. $16 \times ? = 4704 \div 7$
 (a) 12 (b) 18 (c) 24
 (d) 36 (e) None of these
618. $81^{2.5} \times 9^{4.5} \div 3^{4.8} = 9^?$
 (a) 3.7 (b) 9.4 (c) 4.7
 (d) 4.5 (e) None of these
619. $27.085 - 12.32 + 132.41 = ?$
 (a) 147.175 (b) 147.463 (c) 146.463
 (d) 146.175 (e) None of these
620. $\frac{2}{7}$ of $\frac{5}{8}$ of $\frac{7}{9}$ of 6048 = ?
 (a) 504 (b) 820 (c) 168
 (d) 480 (e) None of these
621. $(4.5)^2 \div (2.5)^2 \times 5 = ?$
 (a) 15.4 (b) 16.2 (c) 25.4
 (d) 25.3125 (e) None of these
622. $\frac{3}{56} \times 1736 + 358 = ?$
 (a) 553 (b) 351 (c) 451
 (d) 463 (e) None of these
623. $\sqrt{576} + (?) = \sqrt{1936}$
 (a) 20 (b) 400 (c) 441
 (d) 22 (e) None of these
624. $192 \div 12.8 \times 1.6 = ?$
 (a) 24 (b) 2.4 (c) 9.375
 (d) 8.275 (e) None of these

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

625. $1\frac{1}{8} + 2\frac{2}{3} + 3\frac{3}{4} = ?$
 (a) $7\frac{13}{24}$ (b) $7\frac{11}{24}$ (c) $7\frac{11}{16}$
 (d) $7\frac{13}{16}$ (e) None of these
626. $\frac{745 \div 25 \times 2.5}{384 \div 32 + 0.5} = ?$
 (a) 56.9 (b) 5.96 (c) 5.69
 (d) 59.6 (e) None of these
627. $742 \div 28 + 13.5 = ? \div 65$
 (a) 2400 (b) 2650 (c) 2500
 (d) 2580 (e) None of these
628. $\frac{1287}{1645} \times \frac{235}{572} \div 3\frac{15}{16} = ?$
 (a) $\frac{4}{49}$ (b) $\frac{1}{28}$ (c) $\frac{4}{7}$
 (d) $\frac{1}{7}$ (e) None of these
629. $\frac{413}{576} \times \frac{32}{59} \times 3\frac{3}{14} = ?$
 (a) $1\frac{1}{4}$ (b) $\frac{4}{5}$ (c) $1\frac{1}{5}$
 (d) $2\frac{1}{2}$ (e) None of these
630. $37 \times 7 \times 3 = ?$
 (a) 757 (b) 777 (c) 769
 (d) 779 (e) None of these
631. $5040 \div (? \% \text{ of } 840) = 8$
 (a) 45 (b) 60 (c) 75
 (d) 50 (e) None of these
632. $(396 \div 36) \times (648 \div 24) = ?$
 (a) 297 (b) 264 (c) 319
 (d) 231 (e) None of these
633. $\sqrt{64 \times 49} \div (4)^2 \times 12 = ?$
 (a) 56 (b) 49 (c) 63
 (d) 42 (e) None of these
634. $(7856 + 3214 + 6318) \div ? = 38.64$
 (a) 450 (b) 540 (c) 480
 (d) 520 (e) None of these
635. $(678 - 455 + 132) \times 0.4 = ?$
 (a) 142 (b) 878.5 (c) 887.5
 (d) 156 (e) None of these
636. $(429 \times 36) \div ? = 702$
 (a) 16 (b) 22 (c) 24
 (d) 18 (e) None of these
637. $\frac{12.5 \times 16 + 25}{6.4 \times 5.5 - 10.2} = ?$
 (a) 4.5 (b) 12 (c) 9
 (d) 6 (e) None of these
638. $[(12)^2 + (?)^2] \div 125 = 3.2$
 (a) 18 (b) 14 (c) 8
 (d) 16 (e) None of these
639. $598 \div 2.5 = ? \% \text{ of } 650$
 (a) 34.4 (b) 35.6 (c) 36.8
 (d) 36.4 (e) None of these
640. $318 \times 23 - 1465 = ?$
 (a) 5849 (b) 5327 (c) 5489
 (d) 5237 (e) None of these
641. $31^{11.3} \times 31^{4.1} = ?$
 (a) $31^{6.3}$ (b) $31^{7.2}$ (c) $31^{14.9}$
 (d) $31^{16.8}$ (e) None of these
642. $(255 \times 2000) \div 5000 \times 25 = ?$
 (a) 4.08 (b) 2550 (c) 4590
 (d) 255 (e) None of these
643. $44616 \div \sqrt{7} = 143 \times 6$
 (a) 2704 (b) 2304 (c) 52
 (d) 48 (e) None of these
644. $\frac{3}{8} \text{ of } \frac{4}{5} \text{ of } \frac{5}{6} \text{ of } 7450 = ?$
 (a) 1794.5 (b) 1638.5 (c) 1862.5
 (d) 1565.5 (e) None of these
645. $3654 \div \sqrt{1764} + ? = (10)^2$
 (a) 16 (b) 13 (c) 9
 (d) 12 (e) None of these
646. $538.24 - 193.42 + 343.91 = ?$
 (a) 688.73 (b) 725.53 (c) 851.13
 (d) 622.23 (e) None of these
647. $48356 + 5412 - 736 = ? \times 40$
 (a) 1353.6 (b) 1332.2 (c) 1360.4
 (d) 1325.8 (e) None of these
648. $38 \% \text{ of } 341 = ?$
 (a) 120.68 (b) 129.58 (c) 135.78
 (d) 136.28 (e) None of these
649. $32.4 \times 11.5 \times 8.5 = ?$
 (a) 3149.5 (b) 3167.1 (c) 3129.1
 (d) 3162.5 (e) None of these
650. $96423 + 42380 = ? + 66205$
 (a) 75298 (b) 72985 (c) 79258
 (d) 72895 (e) None of these
651. $\frac{414 \div 23 \times 7 + 36}{7^2 + (3^2 - 2^2)} = ?$
 (a) 3 (b) 2 (c) 5
 (d) 4 (e) None of these
652. $38 \% \text{ of } 295 + 62 \% \text{ of } 445 = ?$
 (a) 380 (b) 388 (c) 346

R.A.C.E**Rapid Academy of Competitive Exams**

(d) 391 (e) None of these
 653. $4611 - (18)^2 - 440 + (10)^2 = ?$

(a) 4183 (b) 4003 (c) 4103

(d) 4193 (e) None of these

654. $18 \times \sqrt{1156} \div 17 = (?)^2$

(a) 7 (b) 49 (c) 6

(d) 36 (e) None of these

655. $\sqrt{444 \div 37 + 15 + 11 \times (?) = 7}$

(a) 3 (b) 4 (c) 2

(d) 5 (e) None of these

656. $13.013 - 22.104 + 62.903 - 9.048 = ?$

(a) 44.744 (b) 42.764 (c) 4.724

(d) 44.764 (e) None of these

657. $\frac{3}{14}$ of $\frac{5}{13}$ of $\frac{6}{7}$ of 3822 = ?

(a) 240 (b) 280 (c) 290

(d) 254 (e) None of these

658. $3968 \div 28 \times (6)^2 + 410 = ?$

(a) 5800 (b) 5500 (c) 5400

(d) 5600 (e) 6100

659. $(12.11)^2 + (?)^2 = 732.2921$

(a) 20.2 (b) 24.2 (c) 23.1

(d) 19.2 (e) None of these

660. $(42)^2 \div 6.3 \times 26 = ?$

(a) 7182 (b) 7269 (c) 7260

(d) 7240 (e) None of these

661. $486 + 32 \times 2.5 - 59 = ?$

(a) 514 (b) 528 (c) 599

(d) 507 (e) None of these

662. $56.21 + 2.36 + 5.41 - 21.4 + 1.5 = ?$

(a) 40.04 (b) 46.18 (c) 44.08

(d) 43.12 (e) None of these

663. $83250 \div ? = 74 \times 25$

(a) 50 (b) 45 (c) 40

(d) 55 (e) None of these

664. 35% of ? = 242.55

(a) 729 (b) 652 (c) 693

(d) 759 (e) None of these

665. $\sqrt{?} - 34 = \sqrt{484}$

(a) 56 (b) 65 (c) 2631

(d) 3136 (e) None of these

666. $632 \div 25 + (?)^2 = 61.28$

(a) 36 (b) 32 (c) 6

(d) 25 (e) None of these

Day 3

667. $22 \times 4 + (?)^2 = (13)^2$

(a) 81 (b) 9 (c) 27

(d) 64 (e) None of these

668. $(2560 \times 1.4) + (7400 \times .6) = ?$

(a) 3961 (b) 9746 (c) 6523

(d) 8024 (e) None of these

669. $(1024 - 263 - 233) \div (986 - 764 - 156) = ?$

(a) 9 (b) 6 (c) 7

(d) 8 (e) None of these

670. $\frac{?}{144} = \frac{49}{?}$

(a) 95 (b) 76 (c) 82

(d) 84 (e) None of these

671. $(1024 - 362 - 214) \div (786 - 730) = ?$

(a) 7 (b) 6 (c) 9

(d) 12 (e) None of these

672. $2530 \div ? \div 10 = 12.65$

(a) 25 (b) 20 (c) 31

(d) 30 (e) None of these

673. $\frac{27 \times 4 - 13 \times 6}{25 \div 5 \times 2} = ?$

(a) 30 (b) 10 (c) 3

(d) 6 (e) None of these

674. $3\frac{5}{8} \times 2\frac{4}{5} + 17\frac{1}{8} = ?$

(a) $27\frac{11}{40}$ (b) $27\frac{11}{20}$ (c) $25\frac{11}{40}$

(d) $25\frac{11}{20}$ (e) None of these

675. $2688 \div 14 \div 12 = ?$

(a) 24 (b) 12 (c) 8

(d) 16 (e) None of these

676. $2.4 \times 1.6 \times 0.05 = ?$

(a) 0.192 (b) 1.92 (c) 19.24

(d) 11.92 (e) None of these

677. $40 \times 12.5 \times 1.3 = ?$

(a) 765 (b) 639 (c) 705

(d) 650 (e) None of these

678. $13\frac{3}{7} + 18\frac{1}{14} + 8\frac{3}{4} = ?$

(a) $39\frac{1}{2}$ (b) $39\frac{3}{14}$ (c) $40\frac{1}{7}$

(d) $40\frac{1}{4}$ (e) None of these

679. 85% of 560 + 25% of 380 = ?

(a) 565 (b) 574 (c) 561

(d) 571 (e) None of these

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

680. $\sqrt{7} + 36 \times 15 = 581$

(a) 41 (b) 61 (c) 1461

(d) 1681 (e) None of these

681. $\frac{4}{5} + \frac{7}{10} - \frac{2}{3} = ?$

(a) $\frac{5}{12}$ (b) $\frac{5}{6}$ (c) $\frac{29}{30}$ (d) $\frac{17}{30}$ (e) None of these

682. $\frac{44 \div ?}{2} = 5.5$

(a) 22 (b) 33 (c) 1.1

(d) 3.3 (e) None of these

683. $12.54 + 32.44 - 34.87 = ?$

(a) 10.31 (b) 11.11 (c) 10.63

(d) 10.11 (e) None of these

684. $\frac{\sqrt{676}}{?} = 2$

(a) 26 (b) 21 (c) 13

(d) 19 (e) None of these

685. $28\% \text{ of } 150 + 24\% \text{ of } 350 = ?$

(a) 146 (b) 108 (c) 118

(d) 126 (e) None of these

686. $362 - 542 = ? - 201$

(a) 21 (b) -18 (c) -23

(d) 31 (e) None of these

687. $\frac{29-36+40}{?} = 11$

(a) 2 (b) 3 (c) 4

(d) 5 (e) None of these

688. $168 \div 24 \times (?) = 56$

(a) 28 (b) 8 (c) 16

(d) 7 (e) None of these

689. $\frac{7^2 \times 7^6}{7^3} = 7^{(?)}$

(a) 11 (b) 7 (c) 6

(d) 4 (e) None of these

690. $\frac{\sqrt{?}}{40} = \frac{1}{8}$

(a) 5 (b) $\sqrt{5}$ (c) 25

(d) 15 (e) None of these

691. $3 \times 4 + 18 \div 6 - 10 = ?$

(a) 4 (b) 5 (c) 7

(d) 6 (e) None of these

692. $\frac{1}{3} \text{ of } \frac{2}{5} \text{ of } 360 = ?$

(a) 48 (b) 56 (c) 60

(d) 68 (e) None of these

693. $46\% \text{ of } 156 - 23.76 = ?$

(a) 47 (b) 48 (c) 48.10

(d) 47.10 (e) None of these

694. $\frac{36+16 \times 36 \div 9}{2} = ?$

(a) 40 (b) 50 (c) 80

(d) 100 (e) None of these

695. $\frac{726}{?} = 121$

(a) 6 (b) 4 (c) 8

(d) 9 (e) None of these

696. $\frac{6}{35} \times 1 \frac{7}{48} \div \frac{4}{7} = ?$

(a) $\frac{11}{36}$ (b) $\frac{7}{33}$ (c) $\frac{16}{39}$ (d) $\frac{11}{32}$ (e) None of these

697. $30\% \text{ of } ? = 54$

(a) 160 (b) 145 (c) 170

(d) 180 (e) None of these

698. $27^{1/3} - 8^{1/3} = ?$

(a) 1 (b) 2 (c) 17

(d) 19 (e) None of these

699. $\frac{?}{\sqrt{25}} = \frac{15 \times 4 - 40}{2}$

(a) 20 (b) 45 (c) 25

(d) 50 (e) None of these

700. $\frac{2}{7} \text{ of } \frac{4}{5} \text{ of } 245 = ? - 56$

(a) 112 (b) 28 (c) 126

(d) 56 (e) None of these

701. $34 \times 14 - 234 - 86 = 126 + ?$

(a) 20 (b) 60 (c) 30

(d) 40 (e) None of these

702. $5 \frac{1}{5} + 2 \frac{2}{15} + 3 \frac{2}{3} = ?$

(a) 15 (b) 13 (c) $\frac{11}{15}$

(d) 12 (e) None of these

703. $35\% \text{ of } \frac{5}{9} \text{ of } 450 = ?$

(a) 87.5 (b) 78.5 (c) 76.5

(d) 86.5 (e) None of these

704. $\sqrt{3136} - \sqrt{1764} = \sqrt{?}$

(a) 14 (b) $(196)^2$ (c) -14

(d) 144 (e) None of these

705. $54.36 - 43.53 + 89.94 = ? + 21.92$

(a) 122.69 (b) 100.77 (c) 74.75

(d) 78.85 (e) None of these

706. $(3325 \div 25) \times (152 \div 16) = ?$

(a) 1269.4 (b) 1264.9 (c) 1265.3

(d) 1263.5 (e) None of these

R.A.C.E**Rapid Academy of Competitive Exams**

707. $\frac{144}{16} \times \frac{96}{31} \div \frac{50}{62} = ?$

- (a) 54.88 (b) 65.86 (c) 32.86
(d) 34.56 (e) None of these

708. $7^2 + 3^4 - 4^3 = ? - 11^2$

- (a) 55 (b) 196 (c) 172
(d) 187 (e) None of these

709. $(8)^3 \div (64)^4 \times (512)^2 = 8^{(?-4)}$

- (a) 4 (b) 3 (c) 7
(d) 5 (e) None of these

710. $32\% \text{ of } 150 \times 53\% \text{ of } ? = 7632$

- (a) 480 (b) 324 (c) 300
(d) 298 (e) None of these

711. $(45.8 \times 6 \times 5) \div 2 - 344 = (?)^3$

- (a) $(7)^3$ (b) $\sqrt{7}$ (c) 49
(d) 7 (e) None of these

712. $\frac{1}{5} \text{ of } \frac{2}{7} \text{ of } \frac{8}{3} \text{ of } 4095 = ?$

- (a) 642 (b) 598 (c) 648
(d) 475 (e) None of these

713. $2\frac{1}{3} \text{ of } 1\frac{1}{4} \text{ of } (?) = 280$

- (a) 84 (b) 124 (c) 96
(d) 108 (e) None of these

714. $2\frac{13}{17} + \frac{4}{17} = ?$

- (a) 5 (b) 2.9 (c) 7
(d) 4 (e) None of these

715. $1\frac{1}{5} - 1\frac{1}{10} + 1\frac{1}{20} = ?$

- (a) $1\frac{1}{54}$ (b) $1\frac{3}{20}$ (c) $1\frac{1}{20}$
(d) $1\frac{5}{54}$ (e) None of these

716. $83^{27.3} \div 83^{1.4} \times 83^{46.8} = 83^{31.9 + ?}$

- (a) 64.1 (b) 41.9 (c) 40.8
(d) 39.1 (e) None of these

717. $7655 - 8354 + 5434 = ? + (6)^2$

- (a) 4529 (b) 4679 (c) 4699
(d) 4539 (e) None of these

718. $\sqrt{3969} \div 1.4 = ? \times 2.5$

- (a) 18 (b) 112.5 (c) 16
(d) 24 (e) None of these

719. $84 \times 13 \div 2 - 17 = (?)^2$

- (a) $\sqrt{19}$ (b) 361 (c) $\sqrt{23}$
(d) $(23)^2$ (e) None of these

720. $896 - (?)^3 = 4608 \div 12$

- (a) 2 (b) 2^3 (c) 8^2

(d) 4^2 (e) 2^4

721. $? \% \text{ of } 800 + (12)^2 = 504$

- (a) 45 (b) 40 (c) 60
(d) 55 (e) None of these

722. What will come in place of both the question marks (?) in the following question?

$$\frac{(?)^{2.3}}{8} = \frac{2}{(?)^{1.7}}$$

- (a) 8 (b) 1 (c) 4
(d) 16 (e) 2

723. $(2 \times 8 \div 4)^4 \div (4 \times 4) \div 5 = ?$

- (a) 6.5 (b) 4.2 (c) 3.2
(d) 4.5 (e) None of these

724. $\frac{4}{5} \times 2\frac{3}{4} \div \frac{5}{8} = ?$

- (a) $4\frac{12}{35}$ (b) $1\frac{12}{35}$ (c) $2\frac{11}{35}$
(d) $3\frac{13}{25}$ (e) None of these

725. $\frac{7}{12} \text{ of } 48\% \text{ of } 750 = ?$

- (a) 60 (b) 360 (c) 120
(d) 240 (e) None of these

726. $5\frac{1}{5} + 2\frac{3}{5} + 1\frac{2}{5} = ?$

- (a) $7\frac{4}{5}$ (b) $8\frac{3}{5}$ (c) $6\frac{2}{5}$
(d) $9\frac{1}{5}$ (e) None of these

727. $(14 \times 6) - (13 \times 5) + 9 = ? \div 4$

- (a) 28 (b) 7 (c) $\sqrt{7}$
(d) 112 (e) None of these

728. $4 \times ? = 4062 \div 5$

- (a) 203.1 (b) 213.1 (c) 205.1
(d) 215.1 (e) None of these

729. $\sqrt{432 \div 24 + 123 - 20} = ?$

- (a) $\sqrt{11}$ (b) $(121)^2$ (c) 11
(d) $(11)^2$ (e) None of these

730. $8059 - 7263 = ? \times 40$

- (a) 19.9 (b) 18.7 (c) 15.9
(d) 17.7 (e) None of these

731. $(546 - 434) \div 16 = ? \div (-5)$

- (a) 55 (b) -28 (c) -35
(d) 45 (e) None of these

732. $(5 \times 5 \times 5 \times 5 \times 5 \times 5)^4 \times (5 \times 5)^6 \div (5)^2 = (25)^?$

- (a) 10 (b) 17 (c) 19
(d) 12 (e) None of these

733. $(19)^2 - (3)^3 - \sqrt{676} + 16 = (?)^2$

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

(a) 20 (b) 12 (c) 24

(d) 36 (e) 18

734. 16% of $450 \div ?\%$ of $250 = 4.8$

(a) 12 (b) 6 (c) 4

(d) 10 (e) None of these

735. $\frac{8}{21}$ of $189 = (?)^2 \div 2$ (a) 6 (b) 36 (c) $\sqrt{6}$

(d) -36 (e) 12

736. What will come in place of both the question marks (?) in the following question?

$$\frac{(?)^{1.6}}{96} = \frac{24}{(?)^{0.4}}$$

(a) 58 (b) -38 (c) 46

(d) 36 (e) -48

737. $\frac{11}{13} + \frac{5}{26} + \frac{3}{52} = ?$ (a) 3 (b) 1 (c) $1\frac{5}{52}$ (d) $3\frac{5}{28}$ (e) None of these738. $8080 \div 80 \div 8 = ?$

(a) 860 (b) 12.625 (c) 806

(d) 14.225 (e) None of these

739. What will come in place of both the question marks (?) in the following questions?

$$\frac{(?)^{4/5}}{48} = \frac{12}{(?)^{6/5}}$$

(a) -48 (b) -12 (c) 48

(d) 12 (e) 24

740. 5% of $420 \times ?\%$ of $150 = 252$

(a) 14 (b) 7 (c) 6

(d) 8 (e) None of these

741. What value will be obtained if the cube of 6 is subtracted from the square of 29?

(a) 645 (b) 625 (c) 565

(d) 545 (e) None of these

742. $\sqrt{?} - 12 = \sqrt{1296}$ (a) $\sqrt{2304}$ (b) $(48)^2$ (c) $\sqrt{48}$

(d) 48 (e) None of these

743. $5 \times ? = 9584 \div 4$

(a) 497.2 (b) 11980 (c) 7667.2

(d) 479.2 (e) None of these

744. $(5 \times 5 \times 5 \times 5 \times 5 \times 5)^2 \times (5 \times 5 \times 5 \times 5)^8 \div (5 \times 5)^3 = (25)^?$

(a) 21 (b) 15 (c) 17

(d) 16 (e) None of these

745. $1255.5 \div (18 \times 15.5) = ?$

(a) 5.5 (b) 6.5 (c) 2.5

(d) 3.5 (e) None of these

746. $3.5 \times (48 \div 1.5) = ?$

(a) 113 (b) 112 (c) 124

(d) 126 (e) None of these

747. 62% of $350 - ?\%$ of $140 = 154$

(a) 55 (b) 25 (c) 47

(d) 38 (e) None of these

748. 13% of $190 + ? = 111$

(a) 66.7 (b) 95.3 (c) 28.7

(d) 73.3 (e) None of these

749. $333.33 + 33.33 + 3.3 = ?$

(a) 369.69 (b) 369.96 (c) 396.96

(d) 396.69 (e) None of these

750. $2615 - 4361 + 2881 = ? \times 20$

(a) 63.75 (b) 57.75 (c) 56.25

(d) 66.25 (e) None of these

751. $(64)^3 \times (8)^9 \div (512)^2 = (8)^?$

(a) 8 (b) 4 (c) 14

(d) 10 (e) None of these

752. $\frac{1}{5} \times \frac{5}{7} \div \frac{6}{7} = ?$ (a) $\frac{2}{5}$ (b) $\frac{1}{5}$ (c) $\frac{1}{6}$ (d) $\frac{1}{7}$ (e) None of these753. $\frac{5}{6} \div \frac{8}{9} \times \frac{3}{5} = ?$ (a) $\frac{5}{9}$ (b) $\frac{7}{16}$ (c) $\frac{9}{16}$ (d) $\frac{7}{9}$ (e) None of these754. $7\frac{1}{7} - 3\frac{1}{14} + 2\frac{2}{7} = ?$ (a) $6\frac{5}{14}$ (b) $3\frac{5}{14}$ (c) $3\frac{3}{14}$ (d) $6\frac{11}{14}$ (e) None of these755. $144 \times 83 - 9090 = ?$

(a) 2862 (b) 2682 (c) 2286

(d) 2268 (e) None of these

756. $6.2 \times 5.5 \times 4.5 = ?$

(a) 156.35 (b) 135.54 (c) 155.54

(d) 145.45 (e) None of these

757. $8052 - 9883 + 6048 = ? \times 25$

(a) 168.68 (b) 186.68 (c) 186.86

(d) 168.86 (e) None of these

758. What will come in place of both the question marks (?) in the following question?

R.A.C.E**Rapid Academy of Competitive Exams**

$$\frac{(?)^{2.7}}{98} = \frac{(28)}{(?)^{0.3}}$$

(a) 7 (b) 14 (c) 8

(d) 12 (e) None of these

$$759. 1\frac{2}{5} - 2\frac{5}{7} + 3\frac{7}{10} = ?$$

(a) $5\frac{17}{10}$ (b) $4\frac{13}{70}$ (c) $2\frac{27}{70}$ (d) $3\frac{11}{70}$ (e) None of these

$$760. 525.25 + 52.52 + 5.2 = ?$$

(a) 678.79 (b) 428.97 (c) 588.97

(d) 582.79 (e) None of these

$$761. \sqrt{?} + 15 = \sqrt{2304}$$

(a) $\sqrt{1089}$ (b) $(33)^2$ (c) $\sqrt{33}$

(d) 33 (e) None of these

$$762. 13.5 \times 16.3 \times 12.8 = ?$$

(a) 2861.46 (b) 2168.46 (c) 2816.64

(d) 2186.64 (e) None of these

$$763. \frac{(?)^{1.8}}{72} = \frac{24}{(?)^{1.2}}$$

(a) 8 (b) 14 (c) 6

(d) 12 (e) None of these

$$764. 58\% \text{ of } 450 - ? \% \text{ of } 250 = 181$$

(a) 34 (b) 30 (c) 32

(d) 48 (e) None of these

$$765. 436.56 - 625.43 + 312.55 = ?$$

(a) 126.68 (b) 125.86 (c) 134.68

(d) 128.86 (e) None of these

$$766. 7825 - 9236 + 5234 = ? \times 25$$

(a) 152.92 (b) 152.29 (c) 125.29

(d) 125.92 (e) None of these

$$767. 4\% \text{ of } 250 \times ? \% \text{ of } 140 = 84$$

(a) 9 (b) 7 (c) 6

(d) 10 (e) None of these

$$768. (49)^2 \times (7)^8 \div (343)^3 = (7)^?$$

(a) 3 (b) 11 (c) 7

(d) 9 (e) None of these

$$769. 4545 \div 50 \div 5 = ?$$

(a) 45.5 (b) 17.16 (c) 54.5

(d) 18.18 (e) None of these

$$770. 10000 \div 100 \div 10 = ?$$

(a) 1 (b) 0.1 (c) 1000

(d) 100 (e) None of these

$$771. (6 \times 6 \times 6 \times 6 \times 6 \times 6)^4 \times (6 \times 6 \times 6 \times 6)^5 \div (6 \times 6)^7 = (36)^?$$

(a) 15 (b) 21 (c) 18

(d) 27 (e) None of these

$$772. 2073.5 \div (22 \times 14.5) = ?$$

(a) 7.5 (b) 6.5 (c) 4.5

(d) 3.5 (e) None of these

$$773. \frac{3}{7} \times \frac{9}{14} \div \frac{5}{7} = ?$$

(a) $\frac{27}{70}$ (b) $\frac{17}{35}$ (c) $\frac{17}{50}$ (d) $\frac{14}{35}$ (e) None of these

$$774. 2\frac{4}{5} - 1\frac{3}{8} + 3\frac{1}{2} = ?$$

(a) $4\frac{17}{40}$ (b) $4\frac{37}{40}$ (c) $3\frac{27}{40}$ (d) $3\frac{11}{40}$ (e) None of these

$$775. 6\frac{3}{8} - 3\frac{1}{16} + 5\frac{1}{8} = ?$$

(a) $4\frac{5}{16}$ (b) $6\frac{5}{16}$ (c) $7\frac{3}{16}$ (d) $8\frac{7}{16}$ (e) None of these

$$776. \sqrt{?} + 22 = \sqrt{2601}$$

(a) $\sqrt{841}$ (b) $(841)^2$ (c) $\sqrt{22}$

(d) 22 (e) None of these

$$777. 7474 + 4747 = ? \times 25$$

(a) 468.84 (b) 442.48 (c) 488.84

(d) 484.36 (e) None of these

$$778. \frac{3}{7} \div \frac{9}{14} \times \frac{6}{11} = ?$$

(a) $\frac{9}{22}$ (b) $\frac{7}{11}$ (c) $\frac{4}{11}$ (d) $\frac{7}{22}$ (e) None of these

$$779. \sqrt{?} - 11 = \sqrt{1764}$$

(a) $\sqrt{2809}$ (b) $(53)^2$ (c) $\sqrt{53}$

(d) 53 (e) None of these

$$780. 206 \times 71 - 12080 = ?$$

(a) 2546 (b) 2654 (c) 2564

(d) 2654 (e) None of these

781. What will come in place of both the question marks (?) in the following question?

$$\frac{(?)^{0.6}}{104} = \frac{26}{(?)^{1.4}}$$

(a) 58 (b) - 48 (c) -56

(d) 42 (e) -52

$$782. \frac{8}{15} \text{ of } 75\% \text{ of } 640 = ?$$

(a) 256 (b) 248 (c) 264

(d) 280 (e) None of these

$$783. \sqrt{456 \div 12 + 142 - 11} = ?$$

(a) $\sqrt{13}$ (b) $(169)^2$ (c) $(13)^2$

(d) 13 (e) None of these

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

784. $322.14 - 223.77 = ? + 17.83$
 (a) 67.86 (b) 64.76 (c) 80.54
 (d) 78.58 (e) None of these
785. What value will be obtained if the cube of 8 is subtracted from the square of 31?
 (a) 448 (b) 459 (c) 467
 (d) 438 (e) None of these
786. $(14)^2 - (4)^3 - \sqrt{625} + 37 = (?)^2$
 (a) 36 (b) 12 (c) 6
 (d) 24 (e) 144
787. $(13 \times 4) - (16 \times 3) + 5 = ? \div 7$
 (a) 63 (b) 54 (c) 24
 (d) 56 (e) None of these
788. $1\frac{5}{6} - 1\frac{1}{12} + 1\frac{7}{24} = ?$
 (a) $1\frac{11}{12}$ (b) $1\frac{5}{12}$ (c) $2\frac{1}{24}$
 (d) $1\frac{5}{24}$ (e) None of these
789. $68 \times 15 \div 2 + 19 = (?)^2$
 (a) $\sqrt{33}$ (b) 441 (c) $\sqrt{23}$
 (d) $(21)^2$ (e) None of these
790. $1\frac{1}{5}$ of $1\frac{1}{2}$ of $(?) = 216$
 (a) 100 (b) 120 (c) 140
 (d) 180 (e) None of these
791. $\frac{9}{14} + \frac{11}{28} + \frac{19}{56} = ?$
 (a) $5\frac{5}{8}$ (b) $4\frac{3}{8}$ (c) $1\frac{3}{8}$
 (d) $1\frac{5}{8}$ (e) None of these
792. $(3 \times 3)^2 \times (9 \times 3)^3 \div 243 = 3^?$
 (a) 5 (b) 4 (c) 8
 (d) 9 (e) None of these
793. $(23 \times 8) - (13 \times 5) + 67 = ? \times 6$
 (a) 21 (b) 34 (c) 41
 (d) 33 (e) None of these
794. $7878 - 4545 + 5454 = ? + 4444$
 (a) 4334 (b) 3434 (c) 4242
 (d) 4343 (e) None of these
795. $\sqrt{7} \times 447 \div 21 + 73 - 26 = ?$
 (a) 196 (b) 16 (c) 13
 (d) 169 (e) None of these
796. $\frac{96}{18} \times \frac{90}{24} \div \frac{20}{9} = (3)^?$
 (a) 1 (b) 3 (c) 5
 (d) 7 (e) None of these
797. $2\frac{1}{2}$ of $1\frac{1}{5}$ of $(?) = 360$
- (a) 160 (b) 120 (c) 140
 (d) 110 (e) None of these
798. $72 \times \frac{5}{18} + 39 = ?$
 (a) 56 (b) 53 (c) 57
 (d) 59 (e) None of these
799. $(\sqrt{7921} - 42) \times 6 = ?$
 (a) 286 (b) 282 (c) 284
 (d) 285 (e) None of these
800. $\sqrt{4489} - \sqrt{2601} = \sqrt{?}$
 (a) 16 (b) $(256)^2$ (c) -16
 (d) 256 (e) None of these
801. $\frac{19}{5032} \times \frac{34}{665} + \frac{7}{296} = ?$
 (a) $\frac{5}{43808}$ (b) $\frac{1}{245}$ (c) $\frac{2}{245}$
 (d) $\frac{1}{74}$ (e) None of these
802. 65% of 1040 = ? % of 2000
 (a) 32.50 (b) 30.80 (c) 35.50
 (d) 33.80 (e) None of these
803. 45% of 3204 - 48% of ? = 911.40
 (a) 1050 (b) 1105 (c) 1150
 (d) 1005 (e) None of these
804. $3055 \div 25 \times 3.4 + 125 = ?$
 (a) 520.50 (b) 418.28 (c) 662.68
 (d) 540.48 (e) None of these
805. $(74 \times \sqrt{676}) - (42 \times \sqrt{?}) = 496$
 (a) 1024 (b) 1296 (c) 1156
 (d) 1089 (e) None of these
806. $(6)^2 + (8)^2 \times (2)^2 - (9)^2 = ?$
 (a) 215 (b) 209 (c) 221
 (d) 211 (e) None of these
807. $\sqrt{1296} \times \sqrt{1764} + ? = (39)^2$
 (a) 9 (b) 7 (c) 11
 (d) 5 (e) None of these
808. $\frac{3^{\text{th}}}{4}$ of $\frac{3^{\text{th}}}{5}$ of $\frac{2^{\text{rd}}}{3}$ of ? = 3174
 (a) 10550 (b) 10540 (c) 10580
 (d) 10500 (e) None of these
809. $97306 - 89306 = ?$ % of 32000
 (a) 20 (b) 40 (c) 35
 (d) 25 (e) None of these
810. $(3750 - 2580) \times 25 \times 6 = ?$
 (a) 7.80 (b) 280.80 (c) 15.80
 (d) 250.80 (e) None of these
811. $[(16)^2 \times (24)^2] \div (?)^2 = (12)^2$

R.A.C.E**Rapid Academy of Competitive Exams**

- (a) 36 (b) 30 (c) 28
 (d) 42 (e) None of these
 812. $(5)^{(3.5)} \times (5)^{(4.8)} \times (5)^{(2.4)} \div (5)^{(?)^2} = (5)^{(5.1)}$
 (a) 5.4 (b) 5.2 (c) 5.6
 (d) 5.5 (e) None of these
 813. $(63)^2 \div (?)^2 + 3^2 = 58$
 (a) 81 (b) 6 (c) 9
 (d) 36 (e) 7
 814. $(10248 \div 56) - (7568 \div ?) = 11$
 (a) 42 (b) 54 (c) 48
 (d) 52 (e) None of these
 815. $39851 + 42305 = 122678 - ?$
 (a) 82156 (b) 40522 (c) 45022
 (d) 60256 (e) None of these
 816. $\frac{3}{4}$ of $\frac{2}{5}$ of $\frac{2}{3}$ of ? = 1616
 (a) 8080 (b) 8000 (c) 8050
 (d) 8020 (e) None of these
 817. $672 \div 24 \times 18 + 153 - 345 = ?$
 (a) 318 (b) 324 (c) 314
 (d) 308 (e) None of these
 818. $3\frac{1}{2} + 1\frac{3}{4} + 1\frac{5}{8} = ?$
 (a) $7\frac{1}{8}$ (b) $6\frac{5}{8}$ (c) $6\frac{7}{8}$
 (d) $5\frac{7}{8}$ (e) None of these
 819. $\frac{63}{13} \times \frac{65}{21} \div \frac{75}{9} = ?$
 (a) $2\frac{1}{5}$ (b) $1\frac{4}{5}$ (c) $\frac{5}{9}$
 (d) $\frac{7}{9}$ (e) None of these
 820. $\frac{5}{18}$ of $\frac{6}{25}$ of 675 = ?
 (a) 40 (b) 55 (c) 35
 (d) 75 (e) None of these
 821. $0.6 \times 1.8 \div 0.5 \times 12 = ?$
 (a) 24.92 (b) 25.92 (c) 18.46
 (d) 17.46 (e) None of these
 822. $\frac{2}{5}$ th of $\frac{3}{4}$ th of $\frac{1}{4}$ th of 26000 = ?
 (a) 1900 (b) 1950 (c) 1980
 (d) 1930 (e) None of these
 823. $5554 - 333 + 45 = ? + 2525$
 (a) 2174 (b) 2417 (c) 2714
 (d) 2741 (e) None of these
 824. $9999 - 3434 - 2525 + 1313 = ?$
 (a) 3535 (b) 5353 (c) 5335
 (d) 3553 (e) None of these
 825. $\sqrt{961} + \sqrt{784} + \sqrt{49} = ?$
 (a) 65 (b) 67 (c) 63
 (d) 66 (e) None of these
 826. $? \times \frac{7}{12} \times \frac{5}{7} \times \frac{1}{2} = 2500$
 (a) 14000 (b) 13000 (c) 12000
 (d) 11000 (e) None of these
 827. $5^2 \times 255 \div 5 - 1116 = ?$
 (a) 149 (b) 147 (c) 159
 (d) 157 (e) None of these
 828. $\frac{3}{4}$ of 26% of 850 = ?
 (a) 165.75 (b) 160.35 (c) 163.75
 (d) 167.75 (e) None of these
 829. 35% of $180 - \sqrt{49} = ?$
 (a) 62 (b) 55 (c) 58
 (d) 67 (e) None of these
 830. $18 \times 8 + 117 + 35 = 158 + ?$
 (a) 148 (b) 158 (c) 115
 (d) 138 (e) None of these
 831. $(36.8 \times 4 \times 5) \div 92 = (?)^2$
 (a) 8 (b) 64 (c) $(64)^2$
 (d) $\sqrt{8}$ (e) 16
 832. $5\frac{1}{3}$ of $2\frac{1}{4}$ of (?) = 288
 (a) 4 (b) 24 (c) 16
 (d) 12 (e) None of these
 833. $(5)^2 + (4)^3 - \sqrt{676} = (?)^2$
 (a) $\sqrt{3}$ (b) 63 (c) $\sqrt{63}$
 (d) 9 (e) 7
 834. $(69.3 \times 15.2) + (4.5 \times 19.8) = ?$
 (a) 1142.46 (b) 1152.46 (c) 1412.46
 (d) 1124.46 (e) None of these
 835. $34.36 - 45.67 + 86.56 = ? + 37.96$
 (a) 31.29 (b) 32.29 (c) 38.49
 (d) 37.49 (e) None of these
 836. $\frac{11}{17} - \frac{9}{34} + \frac{7}{17} = ?$
 (a) $\frac{15}{17}$ (b) $\frac{25}{34}$ (c) $\frac{27}{34}$
 (d) $\frac{12}{17}$ (e) None of these
 837. $1\frac{2}{7} + 1\frac{1}{14} - 1\frac{3}{28} = ?$
 (a) $1\frac{1}{4}$ (b) $1\frac{2}{7}$ (c) $1\frac{1}{7}$
 (d) $1\frac{3}{14}$ (e) None of these
 838. $2\frac{1}{3}$ of $1\frac{1}{4}$ of (?) = 280

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

- (a) 116 (b) 124 (c) 48
(d) 96 (e) None of these
839. $\sqrt{12 \times 145 \div 6 + 34} = ?$
(a) -18 (b) $(324)^2$ (c) 18
(d) $\sqrt{18}$ (e) None of these
840. What value will be obtained if the sum of $(11)^2$ and $(4)^3$ is subtracted from the square of 27?
(a) 564 (b) 544 (c) 592
(d) 582 (e) None of these
841. $(213 - 345) \div 8 = ? \div (-4)$
(a) 25 (b) -66 (c) -4.125
(d) 66 (e) None of these
842. $92 \times 5 \div 10 + 3 = (?)^2$
(a) $\sqrt{7}$ (b) -7 (c) 28
(d) $(49)^2$ (e) $(28)^2$
843. $\frac{3}{4}$ of $\frac{1}{2}$ of $\frac{2}{5}$ of 5020 = ?
(a) 758 (b) 752 (c) 757
(d) 753 (e) None of these
844. $\sqrt{1764} + 22 = \sqrt{?}$
(a) 8 (b) 4096 (c) 64
(d) $\sqrt{64}$ (e) None of these
845. $\frac{4}{5} + \frac{5}{25} + 1\frac{2}{5} = ?$
(a) $2\frac{3}{5}$ (b) $1\frac{2}{5}$ (c) $3\frac{2}{5}$
(d) $2\frac{2}{5}$ (e) None of these
846. $\frac{1}{2}$ of $\frac{1}{5}$ of $\frac{1}{4}$ of 4500 = ?
(a) 118.3 (b) 117.5 (c) 110.3
(d) 116.5 (e) None of these
847. $5670 \div (28 \times 13.5) = ?$
(a) 12 (b) 15 (c) 18
(d) 14 (e) None of these
848. $\sqrt{6 \times 342 \div 3 + 52 - 7} = ?$
(a) 27 (b) 729 (c) -29
(d) -729 (e) None of these
849. $25631 + 1442 - 3229 = ? \times 50$
(a) 467.88 (b) 479.44 (c) 473.33
(d) 474.55 (e) None of these
850. 24% of 40% of $\frac{3}{4}$ of 12000 = ?
(a) 868 (b) 864 (c) 866
(d) 862 (e) None of these
851. $\frac{12}{19} \times \frac{76}{81} \times \frac{3}{8} = ?$
(a) $\frac{4}{9}$ (b) $\frac{2}{7}$ (c) $\frac{4}{7}$
(d) $\frac{2}{9}$ (e) None of these
852. $\sqrt{23409} = ?$
(a) 157 (b) 163 (c) 165
(d) 153 (e) None of these
853. $(19)^2 + (22)^2 - (16)^2 = ?$
(a) 583 (b) 589 (c) 588
(d) 587 (e) None of these
854. $\sqrt{450 + 890 + 685} = ?$
(a) 43 (b) 45 (c) 55
(d) 53 (e) None of these
855. $\sqrt{522 + 35 - 28} = ?$
(a) 33 (b) 35 (c) 27
(d) 23 (e) None of these
856. $36 \times \frac{7}{12} = ?$
(a) 23 (b) 25 (c) 21
(d) 27 (e) None of these
857. $4096 \times (16)^3 \div 16 = (4)^? \times 64$
(a) 8 (b) 6 (c) 7
(d) 10 (e) None of these
858. $8888 \div 8 + 2332 \div 2 = ?$
(a) 2727 (b) 2772 (c) 27777
(d) 2722 (e) None of these
859. $34 \times 255 \times 15 = ? + 14431$
(a) 115619 (b) 115671 (c) 115617
(d) 115691 (e) None of these
860. $[(155 \div 2) + 83.5] \div 5 = ? \div 2.5$
(a) 70.4 (b) 80.5 (c) 83.4
(d) 73.5 (e) None of these
861. $3.44 + 5.22 + 7.23 + 5.24 = ?$
(a) 23.34 (b) 21.13 (c) 25.57
(d) 20.05 (e) None of these
862. $\sqrt{225} + \sqrt{2304} = ? - (12)^2$
(a) 205 (b) 207 (c) 206
(d) 208 (e) None of these
863. $2\frac{1}{2} + 2\frac{1}{3} + 1\frac{2}{5} = ?$
(a) $6\frac{11}{30}$ (b) $4\frac{7}{30}$ (c) $3\frac{7}{30}$
(d) $6\frac{13}{30}$ (e) None of these
864. $(4.7 \times 12 \times 8) + (6.8 \times 16 \times 10) = ?$
(a) 1533.9 (b) 1539.2 (c) 1532.9
(d) 1536.9 (e) None of these
865. $321 \times 16 \div 8 + 34 = (?)^2$

R.A.C.E**Rapid Academy of Competitive Exams**

- (a) $\sqrt{26}$ (b) $(26)^2$ (c) $(676)^2$ (d) 37 (e) None of these
 (d) 676 (e) None of these
 866. $4^{10} \times 64 \div 256 = 4^? \times 16$ 879. 32% of 500 + 162% of 50 =?
 (a) 6 (b) 5 (c) 8 (a) 231 (b) 245 (c) 237
 (d) 9 (e) None of these (d) 247 (e) None of these
 867. $\sqrt{155 + 63 - 31 + 254} = ?$ 880. $2\sqrt{2} \times 3\sqrt{3} \times 7\sqrt{2} \times 4\sqrt{3} = ?$
 (a) 27 (b) -23 (c) 441 (a) 1080 (b) 1008 (c) 1800
 (d) -21 (e) None of these (d) $40\sqrt{3}$ (e) $168\sqrt{6}$
 868. $4334 - 1515 + 4242 - 2222 = ?$ 881. $45316 + 52131 - 65229 = ? + 15151$
 (a) 4834 (b) 4838 (c) 4839 (a) 17063 (b) 17073 (c) 17076
 (d) 4836 (e) None of these (d) 17067 (e) None of these
 869. $(32.4 \times 8 \times 5 + 4) \div 26 + 14 = (?)^2$ 882. 27% of 510 + ? = 266.3
 (a) 8 (b) $\sqrt{8}$ (c) $(64)^2$ (a) 182.6 (b) 122.6 (c) 123.6
 (d) $-\sqrt{8}$ (e) 64 (d) 128.6 (e) None of these
 870. $\frac{49 \times 27}{18\% \text{ of } 50} = ?$ 883. $\sqrt{25 - 12 + 155 + 1} = ?$
 (a) 47 (b) 149 (c) 143 (a) 13 (b) 14 (c) 17
 (d) 141 (e) None of these (d) 16 (e) None of these
 871. $\frac{156}{18} \times \frac{72}{16} \div \frac{60}{12} = ?$ 884. $(23 \times 23 \times 23 \times 23 \times 23 \times 23)^5 \times (23 \times 23)^2 \div (23)^2 = (23)^?$
 (a) 6.8 (b) 7.8 (c) 6.4 (a) 32 (b) 30 (c) 9
 (d) 7.5 (e) None of these (d) 7 (e) 11
 872. $(54.5 \times 8 \times 3) \div 6 - 2 = (?)^3$ 885. $\frac{184 \times 4}{23 \text{ of } 400} = ?$
 (a) $(6)^3$ (b) $\sqrt{6}$ (c) 36 (a) 7 (b) 9 (c) 8
 (d) 6 (e) None of these (d) 5 (e) None of these
 873. $-15 - 27 - 88 - 63 + 255 = ?$ 886. $(62.5 \times 14 \times 5) \div 25 + 41 = (?)^3$
 (a) 55 (b) 74 (c) 62 (a) 4 (b) 5 (c) 9
 (d) 59 (e) None of these (d) 8 (e) 6
 874. $\frac{21}{25} \times \frac{75}{56} \times \frac{32}{33} = ?$ 887. What will come in place of both the question marks (?) in the following question?
 (a) $3\frac{1}{11}$ (b) $1\frac{3}{11}$ (c) $1\frac{1}{11}$ $\frac{(?)^4}{32} = \frac{128}{(?)^5}$
 (d) $2\frac{1}{11}$ (e) None of these
 875. $(2525 \times 0.25 \div 5) \times 7 = ?$ (a) 16 (b) 12 (c) 18
 (a) 889.43 (b) 883.75 (c) 886.45 (d) 14 (e) None of these
 (d) 881.75 (e) None of these
 876. $5544 + 6767 - 3443 = ?$ 888. $(41 + 7 \times 9) \div 7 + (25.153) = ?$
 (a) 8860 (b) 8888 (c) 8866 (a) 40 (b) 23 (c) 25
 (d) 8868 (e) None of these (d) 35 (e) None of these
 877. $\frac{14}{19} \times \frac{57}{70} \times \frac{20}{21} = ?$ 889. If $(11)^3$ is subtracted from $(46)^2$ what will be the remainder?
 (a) $\frac{2}{7}$ (b) $\frac{4}{7}$ (c) $\frac{2}{9}$ (a) 787 (b) 785 (c) 781
 (d) $\frac{3}{7}$ (e) None of these (d) 783 (e) None of these
 878. $\frac{5}{8} \text{ of } \frac{4}{9} \text{ of } \frac{3}{5} \text{ of } 222 = ?$ 890. $4 \times 566 \div 5 + 24.2 - 36 = (?)^2$
 (a) 42 (b) 43 (c) 39 (a) 20 (b) 21 (c) 22
 (d) 23 (e) 25

R.A.C.E**Rapid Academy of Competitive Exams**

891. The sum of the squares of two odd numbers is 11570. The square of the smaller number is 5329. What is the other number?

- (a) 73 (b) 75 (c) 78
(d) 79 (e) None of these

892. $\frac{4 \times 2 + 6}{5 \times 16 - 2} = ?$

- (a) 5 (b) $\frac{16}{35}$ (c) $\frac{1}{5}$
(d) $\frac{16}{39}$ (e) None of these

893. If the square of a number is subtracted from 4052 and the difference is multiplied by 15, the answer so obtained is 41340. What is the number?

- (a) 36 (b) 1024 (c) 32
(d) 1296 (e) None of these

894. $7480 \times \frac{2}{3} \times \frac{3}{4} \times \frac{5}{8} = ?$

- (a) 2330 (b) 2337.8 (c) 2530
(d) 2373.5 (e) None of these

895. $\frac{12}{13} + \frac{1}{26} + 1\frac{1}{13} = ?$

- (a) $1\frac{1}{26}$ (b) $2\frac{1}{26}$ (c) $1\frac{3}{26}$
(d) $\frac{11}{26}$ (e) None of these

896. $\frac{4}{5}$ th of 38% of 600 - 15.4 = ?

- (a) 169 (b) 163 (c) 165
(d) 168 (e) None of these

897. $\frac{5}{7} + \frac{2}{3} - \frac{2}{7} = ?$

- (a) $1\frac{1}{21}$ (b) $1\frac{2}{21}$ (c) $2\frac{1}{21}$
(d) $2\frac{2}{21}$ (e) None of these

898. 42% of 12% of $\frac{1}{4}$ th of 15000 = ?

- (a) 188 (b) 182 (c) 185
(d) 187 (e) None of these

899. $56835 - 12683 + 38934 = ?$

- (a) 83085 (b) 83083 (c) 83088
(d) 83086 (e) None of these

900. 12% of 150 + 62% of 800 = ?

- (a) 516 (b) 518 (c) 515
(d) 514 (e) None of these

901. $\frac{5}{7} \times \frac{3}{8} \times 2\frac{1}{3} = ?$

- (a) $\frac{7}{8}$ (b) $2\frac{1}{7}$ (c) $2\frac{1}{8}$
(d) $\frac{5}{7}$ (e) None of these

902. $\frac{12 \times 7 - 8 \times 5}{\sqrt{25} + 6} = ?$

- (a) 5 (b) 3 (c) $2\frac{1}{11}$
(d) $\frac{8}{11}$ (e) None of these

903. $3\frac{5}{8} + 2\frac{1}{8} + 2\frac{3}{4} = ?$

- (a) $8\frac{1}{8}$ (b) $7\frac{7}{8}$ (c) $8\frac{1}{2}$
(d) $7\frac{5}{8}$ (e) None of these

904. $\frac{15 \times 15 \times 15}{5 \times 3 \times 2} = ?$

- (a) 15 (b) 60 (c) 225
(d) 112.5 (e) None of these

905. $\frac{(16)^2 + 152 \div 4}{15} = ?$

- (a) 18.6 (b) 18.5 (c) 19.6
(d) 19.7 (e) None of these

906. $13\frac{3}{4} + 16\frac{1}{4} + 7\frac{1}{2} = ?$

- (a) 35 (b) 25 (c) $30\frac{1}{2}$
(d) $35\frac{1}{2}$ (e) None of these

907. $\frac{2}{5}$ of 350 + 30% of 250 = ?

- (a) 115 (b) 215 (c) 225
(d) 125 (e) None of these

908. $1\frac{1}{2} + 1\frac{2}{3} \div \left(\frac{6}{7} - \frac{5}{6}\right) = ?$

- (a) 71.5 (b) 133 (c) $\frac{19}{252}$
(d) $\frac{19}{180}$ (e) None of these

909. $\frac{3}{5}$ of 25% of 740 = ?

- (a) 121 (b) 91 (c) 555
(d) 111 (e) None of these

910. 43% of 583 - ? % of 401 = 158.46

- (a) 25 (b) 23 (c) 21
(d) 19 (e) None of these

911. $50085 \div \sqrt{?} = 53 \times 15$

- (a) 65 (b) 3969 (c) 4096
(d) 63 (e) None of these

912. If $(12)^3$ is subtracted from the square of a number the answer so obtained is 976. What is the number?

- (a) 58 (b) 56 (c) 54
(d) 52 (e) None of these

913. $[(12)^2 + (6)^2] \div (?)^2 = 7.2$

- (a) 6 (c) 8 (c) 3
(d) 4 (e) None of these

914. $441 \div 3 \times \sqrt{?} = 10290$

- (a) 70 (b) 80 (c) 4900

R.A.C.E**Rapid Academy of Competitive Exams**

- (d) 6400 (e) None of these
915. $8\frac{5}{6} \div 10\frac{11}{36} = ?$
- (a) $\frac{5}{8}$ (b) $\frac{5}{7}$ (c) $\frac{6}{7}$
- (d) $\frac{6}{11}$ (e) None of these
916. $\sqrt{?} + 24 = \sqrt{2209}$
- (a) 23 (b) 529 (c) 729
- (d) 27 (e) None of these
917. $10531 + 4813 - 728 = ? \times 87$
- (a) 168 (b) 172 (c) 186
- (d) 212 (e) None of these
918. $(4.6 \times 2.8 \times 5.5) - (3.2 \times 4.5 \times 2.8) = ?$
- (a) 36.28 (b) 30.42 (c) 28.35
- (d) 32.52 (e) None of these
919. $\frac{6.4 \times 8.5 \times 2.5}{3.2 \times 12.5} = ?$
- (a) 4.4 (b) 3.5 (c) 4.2
- (d) 3.4 (e) None of these
920. $13.8 \times 16.7 \times 21.4 - 2931.844 = ?$
- (a) 1800 (b) 1900 (c) 2000
- (d) 2100 (e) None of these
921. $(51)^3 \times (14)^3 - (19077)^2 = ?$
- (a) 62415 (b) 33793 (c) 57238
- (d) 46933 (e) None of these
922. $101120 \div \sqrt{?} = 316 \times 5$
- (a) 4096 (b) 64 (c) 62
- (d) 3844 (e) None of these
923. $\frac{3}{4}$ of $\frac{5}{6}$ of $\frac{7}{10}$ of 1664 = ?
- (a) 648 (b) 762 (c) 612
- (d) 728 (e) None of these
924. If $(33)^3$ is subtracted from the square of a number, the answer so obtained is 5272. What is the number?
- (a) 223 (b) 193 (c) 213
- (d) 203 (e) None of these
925. $17^{12} \times 17^4 = ?$
- (a) 17^{16} (b) 17^{48} (c) 17^8
- (d) 17^3 (e) None of these
926. What will come in place of both question marks (?) in the following equation?
- $\frac{75}{?} = \frac{?}{147}$
- (a) 49 (b) 95 (c) 115
- (d) 85 (e) None of these
927. $78 + 652 + 6 + 41 + 119 = ?$
- (a) 905 (b) 855 (c) 896
- (d) 890 (e) None of these
928. $\sqrt[3]{512} + \sqrt[3]{1331} = \sqrt{?}$
- (a) 19 (b) 225 (c) 17
- (d) 289 (e) None of these
929. $(284 + 114 + 324) \div (652 - 548 - 64) = ?$
- (a) 15.25 (b) 16.75 (c) 20.5
- (d) 18.05 (e) None of these
930. 45% of 848 - ? % of 455 = 281.5
- (a) 28 (b) 16 (c) 18
- (d) 22 (e) None of these
931. $\sqrt{625} \div 5 \times ? = 6265$
- (a) 1253 (b) 1250 (c) 1245
- (d) 1550 (e) None of these
932. $(12.25 \times 4.02 - 14.26) \times ? = 699.7$
- (a) 10 (b) 20 (c) 15
- (d) 25 (e) None of these
933. $2875 - 1089 + ? = 4937 - 1208$
- (a) 1943 (b) 1934 (c) 1953
- (d) 1927 (e) None of these
934. $17^{3.5} \times 17^{7.3} \div 17^{4.2} = 17^?$
- (a) 8.4 (b) 8 (c) 6.6
- (d) 6.4 (e) None of these
935. A number when added to $(9)^2$ becomes 192. What is the number?
- (a) 109 (b) 107 (c) 110
- (d) 111 (e) None of these
936. $\frac{4}{9}$ of ? = 48
- (a) 117 (b) 108 (c) 126
- (d) 135 (e) None of these
937. $621 \div 27 \times 2 - 37 = \sqrt{?}$
- (a) 9 (b) 3 (c) 81
- (d) $3\sqrt{3}$ (e) None of these
938. 36% of 250 $\times$ 18% of 50 = ? + 10
- (a) 820 (b) 810 (c) 790
- (d) 800 (e) None of these
939. $(\sqrt{3} + 1)^2 = ? + \sqrt{12}$
- (a) $2\sqrt{3} + 4$ (b) $\sqrt{3}$ (c) $\sqrt{2}$
- (d) 4 (e) None of these
940. $\frac{96 \times \sqrt{49}}{\sqrt{196}} = ? \times \sqrt{36}$
- (a) 16 (b) 48 (c) 96
- (d) 32 (e) None of these

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**

941. $(\sqrt{8})^6 \times (64)^3 \div 8^4 = (8)^?$
 (a) 3 (b) 4 (c) 5
 (d) 7 (e) None of these
942. $\frac{7}{12}$ of 235 of 720 = ?
 (a) 86.6 (b) 96.6 (c) 144.8
 (d) 156.6 (e) None of these
943. $2\frac{3}{7} - 2\frac{1}{4} - 1\frac{1}{14} + 1\frac{1}{28} = ?$
 (a) $\frac{1}{7}$ (b) $1\frac{1}{7}$ (c) $1\frac{1}{14}$
 (d) $\frac{2}{7}$ (e) None of these
944. $\frac{4230-1846}{16} = (?)^2 - 20$
 (a) 13 (b) $\sqrt{13}$ (c) 169
 (d) $13\sqrt{13}$ (e) $(169)^2$
945. $4\frac{1}{3} + 2\frac{1}{6} + 6\frac{1}{2} = ?$
 (a) 12 (b) 13 (c) $2\frac{5}{6}$
 (d) $2\frac{1}{3}$ (e) None of these
946. $325 - (12)^2 + 75 = (?)^2 - 68$
 (a) $\sqrt{18}$ (b) 324 (c) 18
 (d) $(324)^2$ (e) $\sqrt{314}$
947. $2\frac{1}{2}$ of $7\frac{1}{3}$ % of 870 = ?
 (a) 319 (b) 63.8 (c) 169.4
 (d) 149.5 (e) None of these
948. $(0.04)^2 \div (0.008) \times (0.2)^6 = (0.2)^?$
 (a) 6 (b) 5 (c) 8
 (d) 9 (e) None of these
949. $\frac{4}{7} - \frac{3}{14} = \frac{2}{21} + ?$
 (a) $\frac{1}{7}$ (b) $\frac{5}{21}$ (c) $\frac{2}{7}$
 (d) $\frac{4}{21}$ (e) None of these
950. What value will be obtained if the square of 23 is subtracted from the cube of 9?
 (a) 140 (b) 300 (c) 200
 (d) 240 (e) None of these
951. $\frac{5}{12} + \frac{5}{36} + \frac{5}{24} = ?$
 (a) $\frac{55}{72}$ (b) $\frac{11}{36}$ (c) $\frac{5}{48}$
 (d) $\frac{5}{72}$ (e) None of these
952. $(13)^2 - (4)^3 - \sqrt{676} + 2 = (?)^2$
 (a) 3 (b) 9 (c) 81
 (d) 27 (e) 18
953. $\sqrt{12 \times 184 \div 23 + 26 - 73} = ?$
 (a) $\sqrt{7}$ (b) $(7)^2$ (c) 7
 (d) $(49)^2$ (e) None of these
954. $(5)^2 \times (25)^3 \times 125 = (5)^?$
 (a) 9 (b) 7 (c) 8
 (d) 11 (e) None of these
955. $3328 \div \sqrt[3]{?} = 256$
 (a) 2197 (b) 1728 (c) 2744
 (d) 729 (e) None of these
956. ? % of 590 - 11.8 = 236
 (a) 48 (b) 45 (c) 42
 (d) 41 (e) None of these
957. $6^5 \times 36^2 \times 1296 = 6^?$
 (a) 13 (b) 12 (c) 14
 (d) 11 (e) None of these
958. $(54.4 \times 5 \times 8) \div 16 + 8 = (?)^2$
 (a) $(12)^2$ (b) $\sqrt{12}$ (c) $2\sqrt{12}$
 (d) $-\sqrt{12}$ (e) None of these
959. $\frac{88}{24} \times \frac{105}{51} \div \frac{33}{34} = ?$
 (a) $4\frac{5}{18}$ (b) $7\frac{7}{9}$ (c) $7\frac{4}{9}$
 (d) $4\frac{7}{18}$ (e) None of these
960. $(6)^4 \div (36)^3 \times 216 = 6^{(?-2)}$
 (a) 3 (b) 6 (c) 1
 (d) 4 (e) None of these
961. 22% of ? + 166.64 = 340
 (a) 782 (b) 786 (c) 784
 (d) 792 (e) None of these
962. $(82 + 78) \times (0.5 + 0.8) = ?$
 (a) 209 (b) 205 (c) 206
 (d) 208 (e) None of these
963. $0.01 \times 111 + 10.4 - 6.3 = ?$
 (a) 6.32 (b) 4.24 (c) 5.21
 (d) 9.11 (e) None of these
964. $(5994 \div 18) \times (468 \div 18) = ?$
 (a) 8658 (b) 8656 (c) 8655
 (d) 8654 (e) None of these
965. $-19 - 31 - 43 - 20 + 344 = ?$
 (a) 239 (b) 233 (c) 231
 (d) 235 (e) None of these
966. $27 \times 5 + 167 - 32 = ? - 113$
 (a) 348 (b) 382 (c) 383
 (d) 358 (e) None of these
967. $85 \times 12 \div 5 - (2)^3 = (?)^2$
 (a) 196 (b) 24 (c) $2\sqrt{14}$

R.A.C.E**Rapid Academy of Competitive Exams**

- (d) - 14 - $\sqrt{14}$
 968. $31.753 - 29.469 + 45.193 = ?$
 (a) 36.272 (b) 47.477 (c) 46.257
 (d) 38.474 (e) None of these
 969. $29 \times 16 - 218 - 56 = 117 + ?$
 (a) 72 (b) 65 (c) 75
 (d) 63 (e) None of these
 970. $(7)^5 \div (49)^6 \times (343) = 7^{(?-5)}$
 (a) -9 (b) 3 (c) 1
 (d) 5 (e) None of these
 971. $6789 - 7354 + 1244 = ? + (8)^2$
 (a) 659 (b) 615 (c) 655
 (d) 643 (e) None of these
 972. $\frac{6}{23}$ of 276 = $(?)^2 \div 2$
 (a) 6 (b) 288 (c) $\sqrt{12}$
 (d) 36 (e) 12
 973. $(4 \times 9 \div 5) \div (4 \times 5) \times 5 = ?$
 (a) 4.2 (b) 3.6 (c) 1.8
 (d) 4.8 (e) None of these
 974. ? % of 700 + $(5)^2 = 489$
 (a) 59 (b) 54 (c) 51
 (d) 55 (e) None of these
 975. $(37685 + 29452 - 41897) \div 250 = ?$
 (a) 72.11 (b) 112.56 (c) 100.96
 (d) 98.96 (e) None of these
 976. $13498 + 8932 - 1159 = ? \times 89$
 (a) 231 (b) 233 (c) 237
 (d) 239 (e) None of these
 977. $1637 + 1832 = (45)^2 + (?)^2$
 (a) 38 (b) 42 (c) 46
 (d) 54 (e) None of these
 978. $79296 \div \sqrt{?} = 112 \times 12$
 (a) 3481 (b) 3721 (c) 3969
 (d) 3249 (e) None of these
 979. $1\frac{1}{5} \times 2\frac{2}{3} + ? = 4$
 (a) $\frac{4}{5}$ (b) $\frac{1}{3}$ (c) $1\frac{1}{3}$
 (d) $1\frac{1}{5}$ (e) None of these
 980. $[(11)^3 \times (6)^2] \div (4)^3 = ?$
 (a) 2994.75 (b) 748.6875 (c) 272.25
 (d) 4492.125 (e) None of these
 981. $\sqrt{?} + 43 = \sqrt{19881}$
 (a) 9604 (b) 7744 (c) 9216
 (d) 8464 (e) None of these
 982. 38% of 818 - ? % of 636 = 158.2
 (a) 12 (b) 24 (c) 36
 (d) 48 (e) None of these
 983. What will come in place of both the question marks (?) in the following question?
 $\frac{(?)^2}{108} = \frac{16}{(?)}$
 (a) 18 (b) 16 (c) 12
 (d) 24 (e) None of these
 984. $\frac{2}{7}$ of $\frac{5}{6}$ of ? = 200
 (a) 480 (b) 420 (c) 729
 (d) 840 (e) None of these
 985. $97 + 710 - 143 = 4 \times ?$
 (a) 166 (b) 664 (c) 156
 (d) 332 (e) None of these
 986. $\frac{34}{19} \times \frac{38}{51} \div \frac{32}{18} = ?$
 (a) $1\frac{1}{8}$ (b) $\frac{8}{9}$ (c) $2\frac{1}{4}$
 (d) $\frac{3}{4}$ (e) None of these
 987. $45 \times 2 \div 5 + 31 = (?)^2$
 (a) $\sqrt{7}$ (b) $(49)^2$ (c) -17
 (d) $-\sqrt{7}$ (e) 7
 988. $2\frac{1}{2}$ of $1\frac{1}{3}$ of (?) = 340
 (a) 102 (b) 124 (c) 120
 (d) 108 (e) None of these
 989. $(40.5 \times 7 \times 4) \div 6 - (8)^2 = (?)^3$
 (a) $(5)^3$ (b) $\sqrt{5}$ (c) 25
 (d) 5 (e) None of these
 990. $126 \times 1\frac{2}{3} \times 4 = ?$
 (a) 840 (b) 760 (c) 210
 (d) 380 (e) None of these
 991. $1170 \div 26 + (785 - 423 + ?) = 440$
 (a) 37 (b) 33 (c) 38
 (d) 43 (e) None of these
 992. $21 \times 24 - (4)^3 + 7^2 - (?) = 19^2$
 (a) 134 (b) 128 (c) 161
 (d) 149 (e) None of these
 993. $\frac{3}{7}$ of $\frac{4}{9}$ of $\frac{2}{3}$ of 756 = ?
 (a) 96 (b) 108 (c) 88
 (d) 86 (e) None of these
 994. $4 \times 5^2 - 3^2 \times 7 + 6^2 = ? + 24$
 (a) 7^2 (b) 8^2 (c) 9^2

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

R.A.C.E**Rapid Academy of Competitive Exams**(d) 4^2 (e) None of these

995. $2\frac{1}{9} \times 1\frac{2}{19} \div 2\frac{1}{3} = ? - 1\frac{1}{2}$

(a) $3\frac{1}{2}$ (b) $1\frac{1}{4}$ (c) $2\frac{1}{2}$ (d) $2\frac{1}{4}$ (e) None of these

996. 16.5% of $2400 = \frac{2}{3}$ of (?)

(a) 594 (b) 584 (c) 264

(d) 236 (e) None of these

997. What will come in place of both the question marks (?) in the following question?

$$\frac{(?)^{4/7}}{75} = \frac{3}{(?)^{10/7}}$$

(a) 30 (b) 225 (c) 15

(d) 25 (e) 125

998. 45% of $300 + \sqrt{?} = 56\%$ of $750 - 10\%$ of 250

(a) 130 (b) 60 (c) 260

(d) 67600 (e) None of these

999. $\frac{1}{4}$ th of $\frac{1}{2}$ th of $\frac{3}{4}$ th of 52000

(a) 4875 (b) 4857 (c) 4785

(d) 4877 (e) None of these

Answers Key**Day 1**

1. (e) 2. (a) 3. (2) 4. (d) 5. (a) 6. (e) 7. (c) 8. (e)
 9. (b) 10. (b) 11. (d) 12. (e) 13. (e) 14. (a) 15. (d) 16.
 (a) 17. (e) 18. (c) 19. (d) 20. (d) 21. (a) 22. (a) 23.
 (b) 24. (e) 25. (a) 26. (e) 27. (d) 28. (a) 29. (a) 30.
 (d) 31. (b) 32. (e) 33. (a) 34. (d) 35. (e) 36. (b) 37.
 (a) 38. (b) 39. (b) 40. (b) 41. (b) 42. (d) 43. (c) 44.
 (b) 45. (a) 46. (c) 47. (a) 48. (a) 49. (c) 50. (b) 51.
 (b) 52. (e) 53. (e) 54. (b) 55. (e) 56. (e) 57. (c) 58.
 (a) 59. (a) 60. (e) 61. (e) 62. (e) 63. (d) 64. (b) 65.
 (e) 66. (c) 67. (c) 68. (b) 69. (e) 70. (d) 71. (d) 72.
 (c) 73. (d) 74. (e) 75. (d) 76. (e) 77. (b) 78. (d) 79.
 (d) 80. (c) 81. (a) 82. (d) 83. (d) 84. (c) 85. (a) 86.
 (e) 87. (e) 88. (d) 89. (e) 90. (a) 91. (a) 92. (b) 93.
 (b) 94. (d) 95. (e) 96. (a) 97. (a) 98. (d) 99. (c) 100.
 (d) 101. (d) 102. (c) 103. (d) 104. (b) 105. (a) 106.
 (a) 107. (d) 108. (b) 109. (d) 110. (c) 111. (b) 112.
 (c) 113. (a) 114. (c) 115. (b) 116. (a) 117. (d) 118. (c)
 119. (d) 120. (a) 121. (a) 122. (a) 123. (c) 124. (c)
 125. (c) 126. (d) 127. (c) 128. (d) 129. (b) 130. (c)
 131. (d) 132. (a) 133. (c) 134. (c) 135. (a) 136. (d)
 137. (b) 138. (e) 139. (c) 140. (e) 141. (a) 142. (b)
 143. (b) 144. (d) 145. (c) 146. (d) 147. (c) 148. (e)

149. (e) 150. (b) 151. (c) 152. (b) 153. (b) 154. (b)
 155. (c) 156. (e) 157. (b) 158. (b) 159. (a) 160. (c)
 161. (b) 162. (c) 163. (d) 164. (e) 165. (b) 166. (b)
 167. (d) 168. (d) 169. (c) 170. (e) 171. (d) 172. (e)
 173. (a) 174. (d) 175. (c) 176. (d) 177. (a) 178. (c)
 179. (b) 180. (d) 181. (a) 182. (d) 183. (c) 184. (c)
 185. (c) 186. (a) 187. (b) 188. (a) 189. (d) 190. (d)
 191. (c) 192. (b) 193. (e) 194. (b) 195. (d) 196. (b)
 197. (c) 198. (c) 199. (d) 200. (c) 201. (c) 202. (c)
 203. (c) 204. (d) 205. (a) 206. (c) 207. (c) 208. (e)
 209. (d) 210. (a) 211. (c) 212. (e) 213. (b) 214. (e)
 215. (a) 216. (e) 217. (d) 218. (d) 219. (d) 220. (c)
 221. (b) 222. (c) 223. (b) 224. (c) 225. (e) 226. (a)
 227. (a) 228. (b) 229. (b) 230. (c) 231. (c) 232. (c)
 233. (c) 234. (a) 235. (c) 236. (b) 237. (b) 238. (a)
 239. (e) 240. (b) 241. (b) 242. (c) 243. (a) 244. (d)
 245. (e) 246. (e) 247. (c) 248. (a) 249. (c) 250. (d)
 251. (d) 252. (c) 253. (d) 254. (d) 255. (a) 256. (b)
 257. (a) 258. (a) 259. (d) 260. (c) 261. (b) 262. (d)
 263. (b) 264. (d) 265. (e) 266. (c) 267. (a) 268. (c)
 269. (d) 270. (d) 271. (c) 272. (d) 273. (a) 274. (e)
 275. (a) 276. (d) 277. (a) 278. (b) 279. (a) 280. (e)
 281. (c) 282. (c) 283. (b) 284. (d) 285. (d) 286. (b)
 287. (e) 288. (b) 289. (b) 290. (c) 291. (d) 292. (b)
 293. (d) 294. (b) 295. (d) 296. (c) 297. (b) 298. (c)
 299. (c) 300. (b) 301. (e) 302. (c) 303. (d) 304. (c)
 305. (c) 306. (e) 307. (d) 308. (b) 309. (e) 310. (d)
 311. (d) 312. (d) 313. (e) 314. (c) 315. (d) 316. (b)
 317. (d) 318. (a) 319. (b) 320. (c) 321. (a) 322. (b)
 323. (e) 324. (a) 325. (e) 326. (e) 327. (c) 328. (e)
 329. (a) 330. (d) 331. (a) 332. (d) 333. (b)

Day 2

334. (e) 335. (b) 336. (b) 337. (d) 338. (a) 339. (e)
 340. (b) 341. (a) 342. (d) 343. (e) 344. (a) 345. (d)
 346. (c) 347. (d) 348. (c) 349. (a) 350. (e) 351. (a)
 352. (a) 353. (c) 354. (b) 355. (e) 356. (e) 357. (c)
 358. (e) 359. (d) 360. (b) 361. (a) 362. (a) 363. (c)
 364. (c) 365. (c) 366. (e) 367. (d) 368. (e) 369. (d)
 370. (b) 371. (b) 372. (c) 373. (d) 374. (e) 375. (d)
 376. (a) 377. (d) 378. (a) 379. (e) 380. (c) 381. (a)
 382. (e) 383. (b) 384. (c) 385. (e) 386. (e) 387. (a)
 388. (c) 389. (a) 390. (d) 391. (e) 392. (a) 393. (c)
 394. (a) 395. (b) 396. (d) 397. (b) 398. (a) 399. (e)
 400. (a) 401. (a) 402. (e) 403. (c) 404. (d) 405. (d)
 406. (a) 407. (b) 408. (e) 409. (d) 410. (c) 411. (d)
 412. (d) 413. (a) 414. (a) 415. (b) 416. (a) 417. (d)
 418. (d) 419. (c) 420. (a) 421. (c) 422. (a) 423. (a)
 424. (c) 425. (d) 426. (d) 427. (e) 428. (e) 429. (d)
 430. (a) 431. (b) 432. (a) 433. (a) 434. (e) 435. (b)

R.A.C.E**Rapid Academy of Competitive Exams**

436. (a) 437. (a) 438. (a) 439. (d) 440. (c) 441. (d) 442. (b) 443. (e) 444. (d) 445. (b) 446. (e) 447. (a) 448. (d) 449. (a) 450. (d) 451. (e) 452. (e) 453. (a) 454. (a) 455. (e) 456. (a) 457. (e) 458. (a) 459. (d) 460. (c) 461. (b) 462. (a) 463. (d) 464. (d) 465. (c) 466. (b) 467. (d) 468. (a) 469. (e) 470. (d) 471. (c) 472. (d) 473. (c) 474. (e) 475. (b) 476. (d) 477. (a) 478. (d) 479. (c) 480. (a) 481. (b) 482. (e) 483. (e) 484. (d) 485. (b) 486. (d) 487. (b) 488. (e) 489. (d) 490. (e) 491. (a) 492. (e) 493. (a) 494. (d) 495. (d) 496. (e) 497. (a) 498. (c) 499. (c) 500. (b) 501. (a) 502. (c) 503. (e) 504. (c) 505. (a) 506. (e) 507. (d) 508. (b) 509. (b) 510. (a) 511. (e) 512. (d) 513. (e) 514. (d) 515. (d) 516. (e) 517. (c) 518. (d) 519. (b) 520. (a) 521. (d) 522. (e) 523. (a) 524. (b) 525. (b) 526. (c) 527. (e) 528. (e) 529. (a) 530. (a) 531. (c) 532. (e) 533. (a) 534. (b) 535. (d) 536. (c) 537. (b) 538. (e) 539. (b) 540. (d) 541. (a) 542. (c) 543. (d) 544. (e) 545. (c) 546. (a) 547. (a) 548. (e) 549. (e) 550. (e) 551. (e) 552. (a) 553. (c) 554. (b) 555. (d) 556. (d) 557. (b) 558. (e) 559. (e) 560. (d) 561. (a) 562. (c) 563. (c) 564. (e) 565. (d) 566. (a) 567. (d) 568. (d) 569. (a) 570. (e) 571. (e) 572. (b) 573. (c) 574. (d) 575. (e) 576. (b) 577. (c) 578. (e) 579. (e) 580. (d) 581. (d) 582. (e) 583. (a) 584. (b) 585. (a) 586. (d) 587. (a) 588. (b) 589. (a) 590. (c) 591. (a) 592. (b) 593. (e) 594. (d) 595. (e) 596. (d) 597. (d) 598. (b) 599. (e) 600. (e) 601. (b) 602. (a) 603. (c) 604. (e) 605. (d) 606. (b) 607. (d) 608. (d) 609. (b) 610. (e) 611. (e) 612. (b) 613. (d) 614. (b) 615. (d) 616. (b) 617. (e) 618. (e) 619. (a) 620. (e) 621. (b) 622. (c) 623. (a) 624. (a) 625. (a) 626. (b) 627. (e) 628. (a) 629. (a) 630. (b) 631. (c) 632. (a) 633. (d) 634. (a) 635. (a) 636. (b) 637. (c) 638. (d) 639. (c) 640. (a) 641. (e) 642. (b) 643. (a) 644. (c) 645. (b) 646. (a) 647. (d) 648. (b) 649. (b) 650. (e) 651. (a) 652. (b) 653. (e) 654. (c) 655. (c) 656. (d) 657. (e) 658. (e) 659. (b) 660. (e) 661. (d) 662. (c) 663. (b) 664. (c) 665. (d) 666. (c)

Day 3

667. (b) 668. (d) 669. (d) 670. (d) 671. (e) 672. (b) 673. (c) 674. (a) 675. (d) 676. (a) 677. (d) 678. (d) 679. (d) 680. (d) 681. (b) 682. (e) 683. (d) 684. (c) 685. (d) 686. (a) 687. (b) 688. (b) 689. (e) 690. (c) 691. (b) 692. (a) 693. (b) 694. (b) 695. (a) 696. (d) 697. (d) 698. (a) 699. (d) 700. (a) 701. (c) 702. (e) 703. (a) 704. (e) 705. (d) 706. (d) 707. (d) 708. (d) 709. (d) 710. (c) 711. (d) 712. (e) 713. (c) 714. (e) 715. (b) 716. (c) 717. (c) 718. (a) 719. (e) 720. (b) 721. (a) 722. (e) 723. (c) 724. (d) 725. (e) 726. (d) 727. (d) 728. (a) 729. (c) 730. (a) 731. (c) 732. (b) 733. (e) 734. (b) 735. (a) 736. (e) 737. (c) 738. (b) 739. (e) 740. (d) 741. (b) 742. (b) 743. (d) 744. (e) 745. (e) 746. (b) 747. (e) 748. (e) 749. (b) 750. (e) 751. (e) 752. (c) 753. (c) 754. (a) 755. (a) 756. (e) 757. (a) 758. (b) 759. (c) 760. (e) 761. (b) 762. (c) 763. (d) 764. (c) 765. (e) 766. (a) 767. (c) 768. (a) 769. (d) 770. (e) 771. (a) 772. (b) 773. (a) 774. (b) 775. (d) 776. (e) 777. (c) 778. (c) 779. (b) 780. (a) 781. (e) 782. (a) 783. (d) 784. (c) 785. (e) 786. (b) 787. (a) 788. (c) 789. (e) 790. (b) 791. (c) 792. (c) 793. (e) 794. (d) 795. (e) 796. (e) 797. (b) 798. (d) 799. (b) 800. (d) 801. (e) 802. (d) 803. (b) 804. (d) 805. (c) 806. (d) 807. (a) 808. (c) 809. (d) 810. (b) 811. (e) 812. (c) 813. (c) 814. (e) 815. (b) 816. (a) 817. (e) 818. (c) 819. (b) 820. (e) 821. (b) 822. (b) 823. (d) 824. (b) 825. (d) 826. (c) 827. (c) 828. (a) 829. (e) 830. (d) 831. (d) 832. (b) 833. (c) 834. (a) 835. (e) 836. (c) 837. (a) 838. (d) 839. (c) 840. (b) 841. (d) 842. (b) 843. (d) 844. (b) 845. (d) 846. (e) 847. (b) 848. (a) 849. (e) 850. (b) 851. (a) 852. (d) 853. (b) 854. (b) 855. (d) 856. (c) 857. (c) 858. (e) 859. (a) 860. (b) 861. (b) 862. (b) 863. (e) 864. (b) 865. (e) 866. (e) 867. (d) 868. (c) 869. (a) 870. (e) 871. (b) 872. (d) 873. (c) 874. (c) 875. (b) 876. (d) 877. (b) 878. (d) 879. (e) 880. (b) 881. (d) 882. (d) 883. (a) 884. (a) 885. (c) 886. (e) 887. (a) 888. (a) 889. (b) 890. (b) 891. (d) 892. (e) 893. (a) 894. (e) 895. (b) 896. (e) 897. (b) 898. (e) 899. (d) 900. (d) 901. (e) 902. (e) 903. (c) 904. (d) 905. (c) 906. (e) 907. (b) 908. (b) 909. (d) 910. (d) 911. (b) 912. (d) 913. (e) 914. (c) 915. (c) 916. (b) 917. (a) 918. (e) 919. (d) 920. (c) 921. (a) 922. (a) 923. (d) 924. (d) 925. (a) 926. (e) 927. (c) 928. (e) 929. (d) 930. (d) 931. (a) 932. (b) 933. (a) 934. (c) 935. (d) 936. (b) 937. (c) 938. (d) 939. (d) 940. (e) 941. (c) 942. (b) 943. (a) 944. (a) 945. (b) 946. (c) 947. (e) 948. (e) 949. (e) 950. (c) 951. (a) 952. (b) 953. (c) 954. (d) 955. (a) 956. (c) 957. (a) 958. (e) 959. (b) 960. (a) 961. (e) 962. (d) 963. (c) 964. (a) 965. (c) 966. (c) 967. (d) 968. (b) 969. (e) 970. (c) 971. (b) 972. (e) 973. (c) 974. (e) 975. (c) 976. (d) 977. (a) 978. (a) 979. (a) 980. (b) 981. (a) 982. (b) 983. (e) 984. (d) 985. (a) 986. (d) 987. (e) 988. (a) 989. (d) 990. (a) 991. (b) 992. (b) 993. (a) 994. (a) 995. (c) 996. (a) 997. (c) 998. (d) 999. (a)

Chennai: #1, South Usman Road, T Nagar. Chennai. Mob: 9043303030 / 7601808080

Madurai: #24/21, Near Mapillai Vinayagar Theatre, Kalavasal. M: 7695814311

Official Website: www.RACEInstitute.in | Facebook Page: www.facebook.com/RACE.Rapidacademy

BASIC CALCULATION

Directions (Q. 1-5): What will come in place of question mark (?) in the following equations?

1. $135\% \text{ of } 342 - 342\% \text{ of } 13.5 = ?$
 (1) 411.13 (2) 412.23 (3) 413.33 (4) 414.43 (5) 415.53
2. $\sqrt{13.3225} = ?$
 (1) 3.45 (2) 3.55 (3) 3.65 (4) 3.75 (5) 3.85
3. $144 \times 7 + 612 \times 4 = ?\% \text{ of } 12800$
 (1) 24 (2) 27 (3) 30 (4) 32 (5) 35
4. $\frac{1859}{?} = \frac{?}{275}$
 (1) 715 (2) 725 (3) 745 (4) 775 (5) 825
5. $36\% \text{ of } \frac{17}{123} \text{ of } \frac{18}{41} \text{ of } 25215 = ?$
 (1) 542.2 (2) 544.6 (3) 546.5 (4) 547.4 (5) 550.8

Directions (Q. 6-10): What approximate value should come in place of question mark (?) in the following equations.

6. $185\% \text{ of } 1359 + 18.5\% \text{ of } 1319 = ?$
 (1) 2510 (2) 2630 (3) 2760 (4) 2890 (5) 3025
7. $\sqrt{5475} \div 4.98 = ?$
 (1) 11 (2) 15 (3) 20 (4) 24 (5) 27
8. $118.07 \times 13.49 + 169.8\% \text{ of } 784 = ?$
 (1) 2520 (2) 2610 (3) 2750 (4) 2870 (5) 2930
9. $43.03 \times 27.96 + 11.98 \times \sqrt[3]{42870} = ?$
 (1) 1625 (2) 1705 (3) 1775 (4) 1815 (5) 1855
10. $\{(8.66)^2 \times 13.98\} \div \sqrt{50} = ?$
 (1) 120 (2) 130 (3) 140 (4) 150 (5) 160

Directions (Q. 11-15): What should come in place of question mark (?) in the following equations?

11. $\frac{13}{8} \text{ of } \frac{15}{32} \text{ of } 0.45\% \text{ of } 7168 = ?$
 (1) 23.27 (2) 24.57 (3) 25.12 (4) 26.87 (5) 28.42
12. $(1036 \times 0.75 + 1128 \times 0.25) \times 3.5 = ?$
 (1) 3216.2 (2) 3472.3 (3) 3564.6 (4) 3672.8 (5) 3706.5
13. $\sqrt{?} = (78 \times 148) \div 481$
 (1) 484 (2) 529 (3) 576 (4) 625 (5) 676
14. $(5546 \div 47 + 4984 \times 0.25) \div 11 = ?$
 (1) 124 (2) 127 (3) 130 (4) 132 (5) 136
15. $6\frac{2}{5} \times 5\frac{5}{8} \times 11\frac{11}{14} \div 6\frac{2}{7} = ?$

- (1) 63.5 (1) 64.5 (3) 65.5 (4) 66.5 (5) 67.5

Directions (Q. 16-20): What approximate value will come in place of question mark (?) in the following equations?

16. $339\% \text{ of } 803 + 77.8\% \text{ of } 1107 = ?$
 (1) 3175 (2) 3320 (3) 3580 (4) 3710 (5) 3950
17. $\sqrt{2300} \times \sqrt{240} = ?$
 (1) 685 (2) 705 (3) 815 (4) 745 (5) 635
18. $14.03 \times 27.489 - 8.749 \times 16.04 = ?$
 (1) 210 (2) 250 (3) 295 (4) 325 (5) 350
19. $119.003 \times 14.987 + 21.04 \times 13.96 = ?$
 (1) 2080 (2) 2120 (3) 2150 (4) 2175 (5) 2200
20. $17.38\% \text{ of } 1557 - 21.012 \times 8.97 = ?$
 (1) 50 (2) 80 (3) 110 (4) 140 (5) 175

Directions (Q. 21-25) What will come in place of question mark (?) in the following questions?

21. $\frac{1}{6} \text{ of } (92)\% \text{ of } 1\frac{1}{23} \text{ of } (650) = 85 + ?$
 (1) 18 (2) 21 (3) 19 (4) 28 (5) None of these
22. $92 \times 576 \div 2\sqrt{1296} = (?)^3 + \sqrt{49}$
 (1) 3 (2) $(9)^2$ (3) 9 (4) 27 (5) None of these
23. $3\frac{1}{4} + 2\frac{1}{2} - 1\frac{5}{6} = \frac{(?)^2}{10} + 1\frac{5}{12}$
 (1) 25 (2) $\sqrt{5}$ (3) 625 (4) 15 (5) 5
24. $(\sqrt{8} \times \sqrt{8})^{\frac{1}{2}} + (9)^{\frac{1}{2}} = (?)^3 + \sqrt{8} - 340$
 (1) 7 (2) 19 (3) 18 (4) 9 (5) None of these
25. $(15 \times 0.40)^4 \div (1080 \div 30)^4 \times (27 \times 8)^4 = (3 \times 2)^{2+5}$
 (1) 8 (2) 3 (3) 12 (4) 16 (5) None of these

Directions (Q. 26-30) What approximate values should come in place of the question mark (?) in the following questions? [You are not expected to calculate the exact value.]

26. $\left(\frac{24}{9}\right)^2 \times \frac{399}{39} \div \frac{41}{899} = ?$
 (1) 1600 (2) 1650 (3) 1700 (4) 1550 (5) 1750
27. $67.99\% \text{ of } 1401 - 13.99\% \text{ of } 1299 = ?$
 (1) 700 (2) 720 (3) 770 (4) 800 (5) 740
28. $5466.97 - 3245.01 + 1122.99 = ? + 2309.99$
 (1) 1130 (2) 1000 (3) 1100 (4) 1030 (5) 1060
29. $5998 \div 9.98 + 670.99 - 139.99 = ?$
 (1) 1080 (2) 1280 (3) 1180 (4) 1130 (5) 1230
30. $-(4.99)^3 + (29.98)^2 - (3.01)^4 = ?$
 (1) 550 (2) 590 (3) 620 (4) 650 (5) 690

Directions (Q. 31-35): What will come in place of question mark (?) in the following equations?

31. $1664 \times 1.75 + 1008 \times 1.25 - 1220 \times 0.65 = ?$
 (1) 3147 (2) 3287 (3) 3379 (4) 3432 (5) 3548

4

32. $(?\% \text{ of } 999) \div 0.9 = 166.5$
 (1) 12 (2) 15 (3) 18 (4) 21 (5) 24
33. $\{(157.8)^2 - (117.2)^2\} \times 0.008 = ?$
 (1) 89.32 (2) 92.34 (3) 94.86 (4) 96.12 (5) 98.5
34. $82992 \div ? = 76 \times 42$
 (1) 22 (2) 24 (3) 26 (4) 28 (5) 32
35. $[\{(486)^2 \div (27)^2\} \times 15] \div 12 = ?$
 (1) 365 (2) 375 (3) 385 (4) 395 (5) 405

Directions (Q. 36-40): What approximate value should come in the place of question mark (?) in the following equations?

36. $2874.78\% \text{ of } 124.06 \div \sqrt{26} = ?$
 (1) 650 (2) 680 (3) 710 (4) 740 (5) 780
37. $44.4 \times 4.44 \div 7.98 + \sqrt{24000} = ?$
 (1) 180 (2) 210 (3) 260 (4) 320 (5) 350
38. $134.9\% \text{ of } 127.89 + 115.05\% \text{ of } 23.94 = ?$
 (1) 140 (2) 160 (3) 180 (4) 200 (5) 220
39. $(83.98)^2 \div 13.49 = ?$
 (1) 500 (2) 525 (3) 550 (4) 575 (5) 600
40. $(2904 \div 34.95 - 12.99) \times 5.96 = ?$
 (1) 380 (2) 400 (3) 420 (4) 440 (5) 460

Directions (Q. 41-45): What should come in place of question mark (?) in the following equations?

41. $(2197)^{-2} \div (28561)^{-3} = 169 \times (13)^?$
 (1) 2 (2) 3 (3) 4 (4) 5 (5) 1
42. $\frac{7}{12} \text{ of } \frac{5}{21} \text{ of } \frac{1}{23} \text{ of } 48\% \text{ of } 28980 = ?$
 (1) 84 (2) 96 (3) 102 (4) 112 (5) 116
43. $\{14641 \div 11\} \times 3.5 = ?$
 (1) 4325.5 (2) 4472.5 (3) 4578.5 (4) 4658.5 (5) 4755.5
44. $(28)^{4.9} \times (7)^{0.1} \times (2)^{0.2} \div \{(7)^{-2.5} \times (2)^{-5}\} = (28)^?$
 (1) 3.5 (2) 7.5 (3) 4.5 (4) 6.5 (5) 2.5
45. $(28.5\% \text{ of } 144) \times 25 = ? \times 6$
 (1) 171 (2) 172 (3) 173 (4) 174 (5) 175

Directions (Q. 46-50): What approximate value will come in place of question mark (?) in the following equations?

46. $144.8\% \text{ of } 1339 + 42.02 \times 18.484 = ?$
 (1) 2410 (2) 2570 (3) 2650 (4) 2720 (5) 2840
47. $(3740 \div 20.99) \times 4.49 = ?$
 (1) 700 (2) 800 (3) 900 (4) 1000 (5) 600
48. $\left(\frac{2259.6}{38.96} \times \sqrt{2020}\right) \times 1.24 = ?$
 (1) 3030 (2) 3120 (3) 3260 (4) 3340 (5) 3480
49. $184.9\% \text{ of } 749.998 - 114.98\% \text{ of } 839.8 = ?$

50. $\sqrt{24333} - 11.99 \times 2.987 = ?$
- (1) 420 (2) 550 (3) 590 (4) 630 (5) 660

51. $\sqrt{24333} - 11.99 \times 2.987 = ?$
- (1) 40 (2) 80 (3) 120 (4) 160 (5) 200

Directions (Q. 51-55): What will come in place of question mark (?) in the following equations?

52. $(8)^{7.2} \div (512)^{1.6} \times (4096)^{-1.2} \div (32768)^{-1} = (8)^?$
- (1) 2.4 (2) 2.6 (3) 2.8 (4) 3 (5) 3.2
53. $45.5\% \text{ of } 960 + 13.5\% \text{ of } 320 = ?\% \text{ of } 3000$
- (1) 8 (2) 12 (3) 16 (4) 20 (5) 24
54. $\{(13824)^{2/3} \div 16\} \times 7.5 = ?$
- (1) 220 (2) 250 (3) 270 (4) 300 (5) 320
55. $\{6^{3.6} \div (36)^{-4.2}\}^{1/4} = \sqrt{?}$
- (1) 41616 (2) 43264 (3) 44944 (4) 46656 (5) 47524
56. $\sqrt[3]{12167} \times \sqrt{24025} = ?$
- (1) 3255 (2) 3297 (3) 3565 (4) 3611 (5) 3875

Directions (Q. 56-60): What approximate value will come in place of question mark (?) in the following equations?

57. $(139.93 \times 24.102) - (27.89 \times 7.53) = ?$
- (1) 2750 (2) 2920 (3) 3040 (4) 3150 (5) 3210
58. $(3248\% \text{ of } 55.055) \div 27.98 = ?$
- (1) 42 (2) 56 (3) 64 (4) 78 (5) 86
59. $\sqrt{10600} \times \sqrt[3]{19680} = ?$
- (1) 2780 (2) 2850 (3) 2940 (4) 3020 (5) 3150
60. $6844 \div \sqrt{3360} + 255.65 \div 7.98 = ?$
- (1) 110 (2) 130 (3) 150 (4) 170 (5) 190
61. $(248\% \text{ of } 17855) \div 23.98 = ?$
- (1) 1805 (2) 1815 (3) 1825 (4) 1835 (5) 1845

Directions (Q. 61-65): What should come in place of question mark (?) in the following equations?

62. $4950 \div 6 + 112 \times 1.75 = ? \times 2$
- (1) 495.5 (2) 510.5 (3) 530 (4) 560.5 (5) None of these
63. $\sqrt[3]{166.375} = ?$
- (1) 11.5 (2) 8.5 (3) 6.5 (4) 5.5 (5) 7.5
64. $84.25 \times 144 - 512 \times 7 = ?\% \text{ of } 1068.5$
- (1) 620 (2) 840 (3) 780 (4) 750 (5) None of these
65. $\sqrt{4096} + \sqrt{13456} = 75 \times ?$
- (1) 2.4 (2) 3.8 (3) 4.2 (4) 5.5 (5) 6
66. $157\% \text{ of } 360 + 66\% \text{ of } 275 = 30\% \text{ of } ?$
- (1) 2210 (2) 2348 (3) 2489 (4) 2520 (5) None of these

Directions (Q. 66-70): What approximate value should come in place of question mark (?) in the following equations?

67. $(48.048 \div 11.91) \times \sqrt{?} = 112.012$

67. $4140.04 \div 36.06 + 55 \times (8.998)^2 = ?$
 (1) 676 (2) 784 (3) 900 (4) 1024 (5) 576
68. $32.48\% \text{ of } 1808 + 22.94\% \text{ of } 1508 = ?$
 (1) 4570 (2) 4680 (3) 4750 (4) 4880 (5) 4960
69. $\sqrt[3]{10650} = ?$
 (1) 710 (2) 820 (3) 930 (4) 1040 (5) 1150
70. $(10)^{73} \div (100)^{4.15} \times (1000)^2 + 99999 = ? \times 10^5$
 (1) 28 (2) 26 (3) 24 (4) 22 (5) 18
71. $(10)^{73} \div (100)^{4.15} \times (1000)^2 + 99999 = ? \times 10^5$
 (1) 1 (2) 2 (3) 3 (4) 4 (5) 5

Directions (Q. 71-75) What will come in place of question mark (?) in the following questions?

71. $[(3024 \div 189)^{1/2} + (684 \div 19)^2] = (?)^2 + 459$
 (1) -27 (2) -29 (3) 31 (4) 841 (5) 1089
72. 4.4 times of $\frac{5}{16}$ of 30% of 216 = ?
 (1) 81.9 (2) 83.7 (3) 87.3 (4) 89.1 (5) None of these
73. $(0.0729 \div 0.1)^3 \div (0.081 \times 10)^5 \times (0.3 \times 3)^5 = (.9)^{2+3}$
 (1) 1 (2) 2 (3) 4 (4) 7 (5) None of these
74. $(\sqrt{2}\% \text{ of } \sqrt{1764} \times 5) = 149.8 - 112$
 (1) $\sqrt{18}$ (2) 18 (3) 324 (4) 24 (5) None of these
75. $(27)^2 \times 6 \div 9 + (7)^3 + 71 = (?)^3 - 431$
 (1) 11 (2) $(13)^3$ (3) 13 (4) $(11)^2$ (5) None of these

Directions (Q. 76-80): What will come in place of question mark (?) in the following equations?

76. $321 \times 9 \div 0.8 = \sqrt{?} \times 11.25$
 (1) 103037 (2) 103039 (3) 103041 (4) 103043 (5) 103045
77. $78.54 \div 0.03 + 22.8 \div 0.8 - 1470 \times 1.25 = ?$
 (1) 809 (2) 807.5 (3) 805 (4) 802.5 (5) 801
78. $44\% \text{ of } 475 + 72\% \text{ of } 55 = 12.5\% \text{ of } ?$
 (1) 1978.6 (2) 1982.5 (3) 1988.8 (4) 1990 (5) 1992.2
79. $(\sqrt[3]{7})^{\frac{1}{2}} \div (343)^{\frac{-1}{2}} \times (\sqrt[3]{7})^2 = (\sqrt[3]{7})^?$
 (1) 3 (2) 7 (3) 9 (4) -2 (5) -3
80. $8\frac{5}{8} \times 3\frac{3}{23} + 7\frac{1}{5} \times 4\frac{2}{9} = ?$
 (1) $51\frac{2}{5}$ (2) $57\frac{2}{7}$ (3) $53\frac{2}{5}$ (4) $55\frac{2}{7}$ (5) $57\frac{2}{5}$

Directions (Q. 81-85): What approximate value should come in place of question mark (?) in the following equation?

81. $\sqrt{\sqrt{29585} + \sqrt{23100}} = ?$
 (1) 18 (2) 20 (3) 16 (4) 22 (5) 24
82. $48.5\% \text{ of } 7842 + ?\% \text{ of } 1318 = 4515$
 (1) 42 (2) 48 (3) 54 (4) 57 (5) 60
83. $118.257 \times 289.92 + 43.54 \times 171.37 = ?$

- (1) 41500 (2) 41700 (3) 41900⁷ (4) 42100 (5) 42300

84. $\sqrt[3]{226980} = ?$

- (1) 59 (2) 61 (3) 63 (4) 65 (5) 67

85. $8847256 \div 4446 = ?$

- (1) 1930 (2) 1950 (3) 1970 (4) 1990 (5) 2010

Directions (Q. 86-90): What should come in place of question mark (?) in the following equations?

86. $\frac{252}{?} = \frac{?}{63}$

- (1) 124 (2) 126 (3) 128 (4) 130 (5) 132

87. $\frac{3}{7}$ of $504 \div 12 + 17 = \sqrt{?}$

- (1) 1225 (2) 1230 (3) 1235 (4) 1220 (5) None of these

88. $82 + 4 \times 3.75 - 16 = \sqrt{?}$

- (1) 6361 (2) 6461 (3) 6561 (4) 6661 (5) 6761

89. $\left\{\sqrt[5]{27}\right\}^3 \times 81 \div \frac{1}{(3)^{1/5}} = (9)^?$

- (1) 1 (2) 2 (3) 3 (4) 4 (5) 5

90. $7.85\% \text{ of } 1240 + 3.6\% \text{ of } 850 = 20\% \text{ of } ?$

- (1) 633.5 (2) 635.8 (3) 637.4 (4) 639.7 (5) 641

Directions (Q. 91-95): What approximate value should come in place of question mark (?) in the following equations?

91. $(838 \div 14.95) \times 17.85 = ?$

- (1) 900 (2) 1000 (3) 1100 (4) 1200 (5) 1300

92. $\sqrt[3]{29790} \times \sqrt{1760} = ?$

- (1) 1200 (2) 1250 (3) 1300 (4) 1350 (5) 1400

93. $\{555.05 \div 3.001 \times 11.968\} \times 4.99 = ?$

- (1) 11100 (2) 12100 (3) 13100 (4) 14100 (5) 15100

94. $1873 \div 84.85 + 40.81 \times 16.96 = ?$

- (1) 700 (2) 720 (3) 740 (4) 760 (5) 780

95. $79.99\% \text{ of } 873 + 18.08\% \text{ of } 255.05 = ?$

- (1) 720 (2) 750 (3) 790 (4) 850 (5) 890

Directions (Q. 96-100): What will come in place of question mark (?) in the following questions?

96. $47376 \div ? = 47 \times 56$

- (1) 12 (2) 14 (3) 16 (4) 18 (5) 20

97. $207.301 - 171.092 + 781.88 - 11.35 - 0.729 = ?$

- (1) 812.01 (2) 818.01 (3) 801.01 (4) 806.01 (5) 810.01

98. $13.5\% \text{ of } 184 - 4.75\% \text{ of } 48 = ?\% \text{ of } 141$

- (1) 20 (2) 16 (3) 12 (4) 8 (5) None of these

99. $[7569 \div 29 \times 48] \div 18 = 12 \times ?$

- (1) 56 (2) 58 (3) 62 (4) 64 (5) 68

100. $(0.2)^{3/2} \times 0.008 \div \frac{1}{\sqrt{0.2}} = (0.2)^?$

8

(1) 1

(2) 2

(3) 3

(4) 4

(5) 5

Directions (Q. 101-105): What approximate value should come in place of question mark (?) in the following equations?

101. $\sqrt{4355} + \frac{1204.04}{6.978} \times 14.95 = ?$

(1) 2650

(2) 2550

(3) 2450

(4) 2350

(5) 2250

102. 217% of 8458 = ?

(1) 18150

(2) 18350

(3) 18550

(4) 18750

(5) 18950

103. $\sqrt{3020} \times ? = 64400$

(1) 1130

(2) 1150

(3) 1170

(4) 1190

(5) 1210

104. $45.145 + 13.92 \times 15.05 + 148.08 \div 3.97 = ?$

(1) 210

(2) 250

(3) 290

(4) 320

(5) 350

105. 148% of 1749 - $14.99 \times 16.02 = ?$

(1) 2150

(2) 2250

(3) 2350

(4) 2450

(5) 2550

Directions (Q. 106-110): What will come in place of question mark (?) in the following equations?

106. $34.2 \times 17.4 \times 1.5 = 2 \times ?$

(1) 432.12

(2) 440.62

(3) 446.31

(4) 448.32

(5) 452.4

107. $(7776)^{1.3} \times (36)^{1.25} \div (216)^2 \div (1296)^{-1} = 6^?$

(1) 3

(2) 4

(3) 5

(4) 6

(5) 7

108. $\sqrt{1.8225} \times \sqrt{70.56} = ?$

(1) 11.34

(2) 9.72

(3) 12.46

(4) 8.84

(5) None of these

109. 30% of $\frac{5}{7}$ of $\frac{3}{13}$ of $\frac{16}{15}$ of 10920 = ?

(1) 448

(2) 480

(3) 524

(4) 576

(5) 590

110. $3\frac{5}{7} \times 11\frac{2}{3} + 4\frac{5}{42} \div \frac{13}{5} \times 259.5 = ?$

(1) 920

(2) 1050

(3) 1130

(4) 1280

(5) 1520

Directions (Q. 111-115): What approximate value should come in place of question mark (?) in the following equations?

111. $(0.00072 \div 0.000015) \div 5.00005 = ?$

(1) 130

(2) 190

(3) 240

(4) 280

(5) 310

112. 137% of 1285 = ?

(1) 1340

(2) 1510

(3) 1660

(4) 1760

(5) 1790

113. $\sqrt{2300} = ?$

(1) 42

(2) 44

(3) 46

(4) 48

(5) 39

114. 3.068% of 798 + 5.958% of 1089 = ?

(1) 75

(2) 90

(3) 110

(4) 60

(5) 125

115. $13.023 \times 102.68 + 197.68 \times 12.05 = ?$

(1) 3500

(2) 3600

(3) 3700

(4) 3800

(5) 3900

Directions (Q. 116-120): What value should come in place of question mark (?) in the following equations?

116. $\frac{(23.65)^2 - (48.35)^2}{0.9} = ?$
 (1) -1976 (2) -1864 (3) -1724 (4) -1684 (5) None of these
117. 76% of 960 - 45% of 148 = ?% of 5525
 (1) 15 (2) 20 (3) 24 (4) 30 (5) None of these
118. $(4096)^{3.7} \div (256)^{4.3} \times (64)^5 \div (16)^{-4} = (4)^?$
 (1) 22 (2) 24 (3) 26 (4) 28 (5) None of these
119. $3\frac{2}{7}$ of $4\frac{5}{11}$ of $\frac{3}{35}$ of 3080 = ?
 (1) 3864 (2) 3948 (3) 4014 (4) 4124 (5) None of these
120. $\left[\sqrt[5]{2\sqrt{38416}} \right]^{\frac{5}{2}} = ?$
 (1) 14 (2) 196 (3) 2744 (4) 38416 (5) None of these

Directions (Q. 121-125): What approximate value should come in place of question mark (?) in the following equations.

121. $\left\{ \sqrt{7220} \div 16.96 \right\} \times 14.04 = ?$
 (1) 55 (2) 60 (3) 65 (4) 70 (5) 75
122. $13.79 \times 44.94 + (13.1)^2 = ?$
 (1) 650 (2) 760 (3) 790 (4) 840 (5) 880
123. $\sqrt[3]{54870} = ?$
 (1) 35 (2) 36 (3) 37 (4) 38 (5) 39
124. 1.35% of 5720 + 12.8% of 45 = ?
 (1) 81 (2) 83 (3) 85 (4) 87 (5) 89
125. $(1679.8 \div 12.98) + (2020)^{1/2} = ?$
 (1) 155 (2) 165 (3) 175 (4) 185 (5) 195

Directions (Q. 126-130) : What value should come in place of question mark (?) in the following question?

126. $\frac{4}{7}$ of $\frac{3}{11}$ of $\frac{24}{13}$ of 15015 = ?
 (1) 4280 (2) 4320 (3) 4480 (4) 4550 (5) None of these
127. $984 + 3.75 \times 440 - 1.25 \times 248 = ?$
 (1) 2148 (2) 2264 (3) 2324 (4) 2420 (5) None of these
128. $\left[\sqrt[3]{2\sqrt{20736}} \right]^{\frac{3}{2}} = ?$
 (1) 18 (2) 16 (3) 14 (4) 12 (5) 8
129. $(?\% \text{ of } 664) \div 0.8 = 332$
 (1) 80 (2) 75 (3) 60 (4) 50 (5) 40
130. $18.5\% \text{ of } 7200 + 27.8\% \text{ of } 1800 + 16.6 = (?)^2$
 (1) 37 (2) 39 (3) 43 (4) 47 (5) None of these

Directions (Q. 131-135): What approximate value should come in place of question mark (?) in the following equations?

10

131. 172% of 1155 + 2.75% of 275 = ?
 (1) 1990 (2) 1994 (3) 1998 (4) 2040 (5) 1986
132. $7130 \times 19.87 + 13.06 \times 1921 = ?$
 (1) 167560 (2) 169120 (3) 187340 (4) 207940 (5) 268100
133. $18940 \div 45 + 2.39 \times 75 = ?$
 (1) 580 (2) 600 (3) 640 (4) 680 (5) 720
134. $\sqrt[3]{54870} = ?$
 (1) 34 (2) 36 (3) 38 (4) 32 (5) 42
135. $\sqrt{2300} \div \frac{6.06}{11.11} = ?$
 (1) 72 (2) 78 (3) 82 (4) 88 (5) 94

Directions (Q. 136-140): What will come in place of question mark (?) in the following equations?

136. $924 \times 0.75 + 848 \times 1.25 = ? \times 0.25$
 (1) 7004 (2) 7008 (3) 7012 (4) 7016 (5) 7020
137. $\frac{17}{7}$ of $\frac{3}{8} \times \frac{5}{4}$ of ? = 4590
 (1) 3612 (2) 4032 (3) 4448 (4) 4804 (5) None of these
138. $[(342)^3 \div (57)^2] \div 216 = ?$
 (1) 57 (2) 64 (3) 72 (4) 78 (5) 81
139. 26.8% of 480 - 13.4% of 180 = ? $\times 0.06$
 (1) 1640 (2) 1742 (3) 1844 (4) 1948 (5) 2050
140. $\frac{(3.673)^3 + (7.327)^3}{(3.673)^2 + (7.327)^2 - (3.673 \times 7.327)} = ?$
 (1) 10 (2) 11 (3) 12 (4) 9 (5) 13

Directions (Q. 141-145): What approximate value should come in place of question mark (?) in the following equations?

141. $379.87 \times 44.12 - 78.89 \times 84.15 + 373 = ?$
 (1) 10240 (2) 10460 (3) 10450 (4) 10580 (5) 10720
142. $(2.38\% \text{ of } 743) \times (1.84\% \text{ of } 588) = ?$
 (1) 190 (2) 290 (3) 390 (4) 490 (5) 590
143. $182.06 \times 17.987 + 172\% \text{ of } 785 = ?$
 (1) 4175 (2) 4225 (3) 4450 (4) 4505 (5) 4625
144. $17.99 \times 155.05 + 1245 \div 32 = ?$
 (1) 2230 (2) 2430 (3) 2630 (4) 2830 (5) 3030
145. $77.003 \times 13.998 + 18.04 \times 14.996 = ?$
 (1) 1150 (2) 1250 (3) 1350 (4) 1450 (5) 1550

Directions (Q. 146-150): What should come in place of question mark (?) in the following equations?

146. $\sqrt{53.29} \div (30)^{-2} = ?$
 (1) 7240 (2) 6570 (3) 5670 (4) 4540 (5) None of these
147. $13\% \text{ of } 1335 + ?\% \text{ of } 1135 = 366.5$

- (1) 11 (2) 13 (3) 15¹¹ (4) 17 (5) 19
148. $\frac{11}{113}$ of $\frac{7}{85}$ of 115260 = ?
 (1) 832 (2) 848 (3) 886 (4) 904 (5) None of these
149. $2786 + 105 \times ? = 304 \times 14$
 (1) 12 (2) 14 (3) 16 (4) 18 (5) 22
150. $\sqrt[3]{1061208} = ?$
 (1) 108 (2) 106 (3) 102 (4) 92 (5) 104

Directions (Q. 151-155): What approximate value should come in place of question mark (?) in the following equations?

151. $22\% \text{ of } 164.4 + 13.89\% \text{ of } 65 = ?$
 (1) 40 (2) 45 (3) 49 (4) 54 (5) 58
152. $\frac{(1.29)^2 + (3.05)^2}{0.198} = ?$
 (1) 25 (2) 6 (3) 66 (4) 54 (5) 42
153. $(48.84)^2 \times 7.079 = ?$
 (1) 16200 (2) 16400 (3) 16600 (4) 16800 (5) 16990
154. $\sqrt{2020} + \sqrt{320} + \sqrt{1330} = ?$
 (1) 80 (2) 100 (3) 120 (4) 140 (5) 160
155. $\left(\frac{8}{3} \times \frac{13}{5}\right) + \left(\frac{7}{2} \times \frac{5}{3}\right) + \left(\frac{18}{7} \times \frac{28}{16}\right) = ?$
 (1) 11.5 (2) 14.5 (3) 17.5 (4) 21.5 (5) 27.5

Directions (Q. 156-160): What should come in place of question mark (?) in the following questions?

156. $\{(247.4)^2 - (112.6)^2\} \times (80)^{-2} = ?$
 (1) 7.5825 (2) 8.6025 (3) 12.8540 (4) 16.75 (5) None of these
157. $\{11.8\% \text{ of } 4450 + 22.5\% \text{ of } 1680\} \times 40 = ?$
 (1) 24846 (2) 32728 (3) 34112 (4) 35842 (5) 36124
158. $\frac{7}{15}$ of $\frac{12}{11}$ of $\frac{1}{5}$ of 7425 = ?% of 5400
 (1) 12 (2) 14 (3) 16 (4) 18 (5) 24
159. $\frac{735}{?} = \frac{?}{135}$
 (1) 275 (2) 285 (3) 295 (4) 305 (5) 315
160. $(1085)^2 = (10)^6 + ?$
 (1) 165725 (2) 177225 (3) 178455 (4) 186245 (5) None of these

Directions (Q. 161-165): What approximate value should come in place of question mark (?) in the following equations?

161. $872 \times 7 \times ? = 336633$
 (1) 51 (2) 55 (3) 60 (4) 64 (5) 68
162. $(442.22 + 788.08) \div 6.06 = ?$

163. $113.03 \times 14.969 - 12.08 \times 8.98 = ?$
 (1) 205 (2) 235 (3) 275 (4) 255 (5) 175
164. $\sqrt[3]{389000} = ?$
 (1) 1600 (2) 1650 (3) 1590 (4) 1680 (5) 1800
165. $\frac{7640.16}{120.08} \times \sqrt{1220} = ?$
 (1) 71 (2) 73 (3) 75 (4) 77 (5) 67
166. $\frac{7640.16}{120.08} \times \sqrt{1220} = ?$
 (1) 2014 (2) 2056 (3) 2226 (4) 2486 (5) 2894

Directions (Q. 166-180) : What should come in place of question mark (?) in the following questions?

166. $? \div 0.5 \times 24 = 5652$
 (1) 171.75 (2) 117.25 (3) 171.25 (4) 117.75 (5) None of these
167. $5 \times ? = 4808 \div 8$
 (1) 122.2 (2) 112.2 (3) 120.2 (4) 102.2 (5) None of these
168. $65\% \text{ of } 654 - ?\% \text{ of } 860 = 210.1$
 (1) 25 (2) 15 (3) 20 (4) 30 (5) None of these
169. $35154 - 20465 - 5201 = ?$
 (1) 9488 (2) 9844 (3) 9484 (4) 9848 (5) None of these
170. $\frac{8}{13} \div \frac{192}{559} = ?$
 (1) $1\frac{19}{24}$ (2) $4\frac{19}{28}$ (3) $2\frac{17}{28}$ (4) $3\frac{17}{2}$ (5) None of these
171. $243 \times 124 - 25340 = ?$
 (1) 4729 (2) 4792 (3) 4972 (4) 4927 (5) None of these
172. $92 \div 8 \div 2 = ?$
 (1) 4.75 (2) 5.75 (3) 4.25 (4) 5.25 (5) None of these
173. $(121)^3 \times 11 \div (1331)^2 = (11)^?$
 (1) 3 (2) 2 (3) 1 (4) 0 (5) None of these
174. $283.56 + 142.04 + 661.78 = ?$
 (1) 1084.28 (2) 1087.28 (3) 1080.38 (4) 1082.48 (5) None of these
175. $7028 \div 25 = ?$
 (1) 218.12 (2) 281.21 (3) 218.21 (4) 282.12 (5) None of these
176. $390.5 \times \sqrt{7} = 284 \times 22$
 (1) $(256)^2$ (2) 16 (3) $\sqrt{16}$ (4) 256 (5) None of these
177. $12.5 \times 8.4 \times 7.6 = ?$
 (1) 787 (2) 788 (3) 799 (4) 789 (5) None of these
178. $4477 \div (44 \times 5.5) = ?$
 (1) 24.5 (2) 21.5 (3) 16.5 (4) 18.5 (5) None of these
179. $33.5\% \text{ of } 250 = ?$
 (1) 76.25 (2) 82.25 (3) 78.75 (4) 83.75 (5) None of these
180. $\frac{1}{2} \text{ of } \frac{3}{5} \text{ of } \frac{4}{9} \text{ of } 5820 = ?$

13

- (1) 766 (2) 777 (3) 776 (4) 767 (5) None of these

Directions (Q. 181-185): What value should come in place of question mark (?) in the following equations?

181. $24.5\% \text{ of } 48 + 8.4\% \text{ of } 125 = ?\% \text{ of } 139.125$

- (1) 12 (2) 14 (3) 16 (4) 18 (5) 20

182. $\frac{24.84 \div ?}{0.2 \times 0.03} = 300$

- (1) 11.2 (2) 13.8 (3) 14.5 (4) 16 (5) 18.8

183. $\frac{8}{13} \text{ of } \frac{7}{3} \text{ of } 12.5\% \text{ of } 13728 = 320\% \text{ of } ?$

- (1) 748 (2) 756 (3) 764 (4) 770 (5) 780

184. $(1296)^{3.8} \times (216)^{-4} \div \frac{1}{7776} = (36)^?$

- (1) 3.2 (2) 4.1 (3) 4.8 (4) 5.6 (5) 2.8

185. $\sqrt{6084} \div \sqrt[3]{2197} = \sqrt[3]{?}$

- (1) 64 (2) 125 (3) 216 (4) 343 (5) 512

Directions (Q. 186-190): What approximate value should come in place of question mark (?) in the following equations?

186. $\sqrt{730} + \sqrt{3365} = ? \times 4.936$

- (1) 13 (2) 15 (3) 17 (4) 19 (5) 21

187. $7824 \div 47.87 + 3236 \div 57.011 = ?$

- (1) 200 (2) 220 (3) 240 (4) 260 (5) 280

188. $2.8\% \text{ of } 312 + 1.2\% \text{ of } 416 = ?$

- (1) 22 (2) 18 (3) 14 (4) 10 (5) 6

189. $189.089 \times 3.27 + 4.004 \times 111.819 = ?$

- (1) 1015 (2) 1035 (3) 1065 (4) 1085 (5) 2005

190. $(324\% \text{ of } 5842) \div 194.79 = ?$

- (1) 57 (2) 79 (3) 85 (4) 97 (5) 102

Directions (Q. 191-195): What value should come in place of question mark(?) in the following questions?

191. $(1089)^{2.8} \div (33)^{-3.4} \times \frac{1}{35937} = (1089)^?$

- (1) 1 (2) 2 (3) 3 (4) 4 (5) 5

192. $1.4641 \div 0.0011 = ?$

- (1) 1 (2) 11 (3) 121 (4) 1331 (5) 14641

193. $3.6\% \text{ of } 180 + 2.4\% \text{ of } 555 = ?\% \text{ of } 49.5$

- (1) 40 (2) 60 (3) 80 (4) 100 (5) 120

194. $\frac{7}{9} \text{ of } \frac{4}{3} \text{ of } 78\% \text{ of } 4950 = ?$

- (1) 4004 (2) 4008 (3) 4012 (4) 4016 (5) 4020

195. $7.25 \times 244 - 2.75 \times 148 = 1.2 \times ?$

- (1) 1125 (2) 1135 (3) 1145 (4) 1155 (5) 1165

Directions (Q. 196-200): What approximate value should come in place of question mark (?) in the following equations?

196. $\sqrt[3]{54870} \times \sqrt{1220} = ?$

- (1) 1310 (2) 1320 (3) 1330 (4) 1340 (5) 1350

14

197. $(445\% \text{ of } 336) \div 4.98 = ?$
 (1) 200 (2) 300 (3) 400 (4) 500 (5) 600
198. $(8754 \div 6.05) \times 4.98 = ?$
 (1) 7000 (2) 7300 (3) 7600 (4) 7900 (5) None of these
199. $185\% \text{ of } 1240 + 62.002 \times 14.995 = ?$
 (1) 3205 (2) 3215 (3) 3225 (4) 3240 (5) 3255
200. $548.78 \div 10.99 \times 8.48 = ?$
 (1) 325 (2) 350 (3) 375 (4) 400 (5) 425

Directions (Q. 201-205) : What value should come in place of question mark (?) in the following questions?

201. $3\frac{2}{5} \times 7\frac{5}{8} \div 2\frac{1}{3} \times 3\frac{1}{2} \times 3\frac{1}{5} = ?$
 (1) 121.32 (2) 122.82 (3) 123.74 (4) 124.44 (5) 125.5
202. $77.8 \times 0.8 \times ? = 964.72$
 (1) 13.5 (2) 14.5 (3) 15.5 (4) 16.5 (5) 17.5
203. $\sqrt{17.64} \times \sqrt{14.0625} = \sqrt{0.0225} \times ?$
 (1) 105 (2) 115 (3) 125 (4) 135 (5) 145
204. $\frac{7}{15} \text{ of } \frac{5}{27} \text{ of } 45\% \text{ of } 1593 = 2.1 \times ?$
 (1) 29.5 (2) 28.5 (3) 27.5 (4) 26.5 (5) 25.5
205. $(357.911)^{\frac{2}{3}} \times (50.41)^{\frac{3}{2}} = (7.1)^?$
 (1) 5 (2) 4 (3) 3 (4) 2 (5) 1

Directions (Q. 206-210) : What approximate value should come in place of question mark (?) in the following questions?

206. $\sqrt{6890} + \sqrt[3]{50650} = ?$
 (1) 112 (2) 114 (3) 116 (4) 118 (5) 120
207. $(669.76 + 29.96 \times 35.05) \div 6.04 = ?$
 (1) 150 (2) 290 (3) 370 (4) 420 (5) 460
208. $(44.99)^2 \div 7.538 = ?$
 (1) 90 (2) 160 (3) 270 (4) 320 (5) 375
209. $228\% \text{ of } 450 + 84\% \text{ of } 844.98 - 1116 = ?$
 (1) 360 (2) 630 (3) 625 (4) 530 (5) 620
210. $361 \times 5.96 \times ? = 15227$
 (1) 3 (2) 18 (3) 7 (4) 12 (5) 15

Directions (Q.211-215) What will come in place of the question mark (?) in the following questions?

211. $4003 \times 77 - 21015 = ? \times 116$
 (1) 2477 (2) 2478 (3) 2467 (4) 2476 (5) None of these
212. $[(5\sqrt{7} + \sqrt{7}) \times (4\sqrt{7} + 8\sqrt{7})] - (19)^2 = ?$
 (1) 143 (2) $72\sqrt{7}$ (3) 134 (4) $70\sqrt{7}$ (5) None of these
213. $(4444 \div 40) + (645 \div 25) + (3991 \div 26) = ?$
 (1) 280.4 (2) 290.4 (3) 295.4 (4) 285.4 (5) None of these
214. $\sqrt{33124} \times \sqrt{2601} - (83)^2 = (?)^2 + (37)^2$
 (1) 37 (2) 33 (3) 34 (4) 28 (5) None of these

215. $5\frac{17}{37} \times 4\frac{51}{52} \times 11\frac{1}{7} + 2\frac{3}{4} = ?$

- (1) 303.75 (2) 305.75 (3) $303\frac{3}{4}$ (4) $305\frac{1}{4}$ (5) None of these

Directions (Q.216-220) : What approximate value should come in place of the question mark (?) in the following questions ? (Note : You are not expected to calculate the exact value.)

216. $8787 \div 343 \times \sqrt{50} = ?$

- (1) 250 (2) 140 (3) 180 (4) 100 (5) 280

217. $\sqrt[3]{54821} \times (303 \div 8) = (?)^2$

- (1) 48 (2) 38 (3) 28 (4) 18 (5) 58

218. $\frac{5}{8}$ of 4011.33 + $\frac{7}{10}$ of 3411.22 = ?

- (1) 4810 (2) 4980 (3) 4890 (4) 4930 (5) 4850

219. 23% of 6783 + 57% of 8431 = ?

- (1) 6460 (2) 6420 (3) 6320 (4) 6630 (5) 6360

220. $335.01 \times 244.99 \div 55 = ?$

- (1) 1490 (2) 1550 (3) 1420 (4) 1590 (5) 1400

Directions (Q. 221-225) : What value should come in place of question mark (?) in the following questions?

221. $\sqrt{?} = (153 \times 46) \div 18$

- (1) 149769 (2) 151321 (3) 152881 (4) 154449 (5) None of these

222. $(3834 \div 27) \times (3920 \div 112) = ?$

- (1) 4210 (2) 4430 (3) 4560 (4) 4750 (5) 4970

223. 2.8% of 1220 + 7.4% of 780 = ?

- (1) 87.72 (2) 91.88 (3) 93.42 (4) 94.56 (5) None of these

224. $0.6 \times 2.8 \times 3.5 \div 0.0049 = ?$

- (1) 840 (2) 900 (3) 1080 (4) 1200 (5) 1250

225. 30% of $\sqrt{15625} + 70\%$ of $\sqrt[3]{3375} = ?$

- (1) 48 (2) 55 (3) 64 (4) 72 (5) 75

Directions (Q. 226-230) : What approximate value should come in place of question mark (?) in the following questions?

226. $(280\% \text{ of } 1525) \div 16.96 = ?$

- (1) 210 (2) 220 (3) 230 (4) 240 (5) 250

227. $668.612 + 119.19 \times 21.86 - 79.54 = ?$

- (1) 3000 (2) 3100 (3) 3200 (4) 3300 (5) 3400

228. $612.98 \div 15.05 \div 6.12 = ?$

- (1) 7 (2) 12 (3) 15 (4) 18 (5) 20

229. $\sqrt[3]{615} = ?$

- (1) 4.5 (2) 5.5 (3) 6.5 (4) 7.5 (5) 8.5

230. $(314\% \text{ of } 711) \div 114 = ?$

- (1) 16 (2) 20 (3) 24 (4) 28 (5) 32

Directions (Q. 231-235) : What value should come in place of question mark (?) in the following questions?

231. $(125 \div 0.5) \div 0.5 = 80\% \text{ of?}$

- (1) 500 (2) 525 (3) 550 (4) 600 (5) 625

232. $\sqrt{\sqrt{194481}} = ?$

- (1) 17 (2) 19 (3) 21 (4) 23 (5) 27

233. $\frac{8.5}{0.25} + \frac{4.4}{0.2} = ?\%$ of 80

- (1) 60 (2) 64 (3) 70 (4) 75 (5) 80

234. $\frac{3}{5}$ of $\frac{4}{7}$ of $\frac{9}{11}$ of 21175 = $2^2 \times 3^3 \times ?$

- (1) 45 (2) 48 (3) 51 (4) 54 (5) 55

235. $\left[\sqrt[3]{\sqrt{83521}} \right]^{\frac{3}{2}} = ?$

- (1) 13 (2) 17 (3) 21 (4) 23 (5) 29

Directions (Q. 236-240) : What approximate value should come in place of question mark (?) in the following questions?

236. 16.5% of 1399.921 + 114.78% of 1211 = ?

- (1) 1270 (2) 1350 (3) 1490 (4) 1530 (5) 1610

237. $\sqrt{1220} \times 16.06 + \sqrt{4897} = ?$

- (1) 610 (2) 620 (3) 630 (4) 640 (5) 650

238. $18.08 \times 11.898 + 22.922 \times 14.94 = ?$

- (1) 520 (2) 560 (3) 540 (4) 580 (5) 610

239. $(2284.85 \div 4.985 + 17.126) \div 6.06 = ?$

- (1) 61 (2) 65 (3) 69 (4) 75 (5) 79

240. $(445905 \div 981) + (1618 \div 64.8) = ?$

- (1) 450 (2) 60 (3) 470 (4) 480 (5) 490

Directions (Q. 241-245): What value should come in place of question mark (?) in the following questions?

241. $(2401)^{\frac{3}{4}} \div \frac{1}{343} \div (49)^{\frac{7}{2}} = (7)^?$

- (1) -2 (2) -1 (3) 1 (4) 2 (5) 3

242. 28.2% of 125 + 7.8% of 175 = 20% of ?

- (1) 242.5 (2) 243.5 (3) 244.5 (4) 245.5 (5) 246.5

243. $\sqrt[3]{17576} \times 676 \div \sqrt[3]{(2197)^3} = (4096)^{\frac{?}{8}}$

- (1) 2 (2) 4 (3) 6 (4) 1 (5) 3

244. $252252 \div ? = 63 \times 77$

- (1) 48 (2) 49 (3) 50 (4) 51 (5) 52

245. 125% of 225% of $\frac{7}{6}$ of 4128 = ?

- (1) 13525 (2) 13535 (3) 13545 (4) 13555 (5) 13565

Directions (Q. 246-250): What approximate value should come in place of question mark (?) in the following questions?

246. $\{(5.75)^2 \times 4.996\} \div 11.04 = ?$

- (1) 5 (2) 15 (3) 25 (4) 35 (5) 45

247. 85% of 489.96 + 73% of 849.98 = ?

- (1) 1015 (2) 1025 (3) 1035 (4) 1045 (5) 1055

248. $24.03 \times 18.96 - 7.25 \times 43.98 + 12.98 = ?$

- (1) 150 (2) 175 (3) 200 (4) 225 (5) 250

249. $(644.96 \div 14.95 + 1.98) \times 15.966 = ?$

- (1) 600 (2) 720 (3) 850 (4) 975 (5) 1020

250. $22.22 \times 33.3 \times 0.44 = ?$

- (1) 310 (2) 315 (3) 320 (4) 325 (5) 330

Directions (Q. 251-255) : What should come in place of question mark(?) in the following questions?

251. $7.12\% \text{ of } 8500 - 3.6\% \text{ of } 5500 = 1.6\% \text{ of } ?$

- (1) 25410 (2) 25420 (3) 25430 (4) 25440 (5) 25450

252. $\frac{13}{17} \text{ of } \frac{12}{19} \text{ of } 47\% \text{ of } 40375 = ? \times 6$

- (1) 1525.5 (2) 1527.5 (3) 1528.5 (4) 1529.5 (5) 1530

253. $\frac{4608}{?} = \frac{?}{5202}$

- (1) 4816 (2) 4848 (3) 4872 (4) 4896 (5) 4904

254. $(142.8 \div 2.4) \times 7.5 \div 0.15 = ?$

- (1) 2725 (2) 2850 (3) 2975 (4) 3025 (5) 3150

255. $(7.2)^{3.2} \times \frac{1}{(7.2)^{1.6}} \div (51.84)^{-1.8} \times (51.84)^{-1.2} = (7.2)^{?}$

- (1) 2.4 (2) 2.8 (3) -1.2 (4) -2.4 (5) None of these

Directions (Q. 256-260) : What approximate value should come in place of question mark in the following questions?

256. $1144.98 \times 5.85 \times 3.2 \div 12 = ?$

- (1) 1600 (2) 1790 (3) 1800 (4) 2200 (5) 2400

257. $112.21 \times 132.52 \times 4.793 \div 17.998 = ?$

- (1) 3720 (2) 3780 (3) 3840 (4) 3900 (5) 3960

258. $27.77 \times 35.012 \times 4.88 \div 24.985 + \sqrt{35} = ?$

- (1) 180 (2) 200 (3) 220 (4) 240 (5) 260

259. $27\% \text{ of } 5678 - 37\% \text{ of } 2345 = ?$

- (1) 620 (2) 635 (3) 650 (4) 665 (5) 680

260. $648\% \text{ of } \sqrt{429020} = ?$

- (1) 4050 (2) 4150 (3) 4250 (4) 4350 (5) 4450

Directions (Q. 261-265) : What value should come in place of question mark(?) in the following questions?

261. $7.8\% \text{ of } 275 + 3.2\% \text{ of } 155 = 1\% \text{ of } ?$

- (1) 2640 (2) 2641 (3) 2642 (4) 2643 (5) 2644

262. $\frac{12}{19} \text{ of } \frac{7}{5} \text{ of } 45\% \text{ of } 8075 = ?$

- (1) 3194 (2) 3199 (3) 3207 (4) 3213 (5) 3228

263. $\frac{4}{13} \text{ of } 2379 + \frac{2}{15} \text{ of } 2265 = 20\% \text{ of } ?$

- (1) 5150 (2) 5160 (3) 5170 (4) 5180 (5) 5190

264. $(4913)^{\frac{2}{3}} \times (2197)^{\frac{2}{3}} = 221 \times ?$

- (1) 1 (2) 221 (3) $(221)^2$ (4) $(221)^3$ (5) None of these

265. $65\% \text{ of } 132 + 12.5\% \text{ of } 57.6 = ? \times 3$

- (1) 30 (2) 31 (3) 32 (4) 33 (5) 34

Directions (Q. 266-270) : What approximate value should come in place of question mark (?) in the following questions?

18

266. 148% of 13785 = ?
 (1) 20100 (2) 20200 (3) 20300 (4) 20400 (5) 20500
267. $\sqrt{1445} + \frac{8.01}{6.994} \times 168.08 = ?$
 (1) 210 (2) 220 (3) 230 (4) 240 (5) 250
268. $\sqrt{24000} \times 36.06 + 174.98 \times 3.99 = ?$
 (1) 6180 (2) 6280 (3) 6380 (4) 6480 (5) 6580
269. $4488 \div \sqrt{1935} + 171.991 \div 3.998 = ?$
 (1) 105 (2) 125 (3) 145 (4) 165 (5) 185
270. (1884% of 73) $\div$ 25.05 = ?
 (1) 35 (2) 45 (3) 55 (4) 65 (5) 75

Directions (Q. 271-275) : What will come in place of question mark(?) in the following questions?

271. $(\sqrt{5} - \sqrt{10})^2 + (\sqrt{2} + 5)^2 = (?)^3 - 22$
 (1) $\sqrt{2}$ (2) 2 (3) 16 (4) 8 (5) None of these
272. 55% of $\sqrt{2116} \div 0.01 = ? \times 20$
 (1) 126.5 (2) 126.6 (3) 124.6 (4) 125.4 (5) None of these
273. $\sqrt{12^2 \times 16 \div 24 + 193 + 7 \times 5} = (?)^2$
 (1) $3\sqrt{2}$ (2) $4\sqrt{2}$ (3) $5\sqrt{2}$ (4) 18 (5) 32
274. $\sqrt{31.36} \div \sqrt{0.64} \times 252 = (?)^2 \times 36$
 (1) 81 (2) 64 (3) -8 (4) -7 (5) 9
275. $(1.69)^4 \div (2197 \div 1000)^3 \times (0.13 \times 10)^3 = (1.3)^{? \cdot 2}$
 (1) 6 (2) 2 (3) 4 (4) 0 (5) None of these

Directions (Q. 276-280) : What approximate value will come in place of question mark (?) in the following questions ? (You are not expected to calculate the exact value.)

276. 68% of 1288 + 26% of 734 - 215 = ?
 (1) 620 (2) 930 (3) 540 (4) 850 (5) 710
277. $(32.05)^2 - (18.9)^2 - (11.9)^2 = ?$
 (1) 670 (2) 530 (3) 420 (4) 780 (5) 960
278. $6578 \div 67 \times 15 = ? \times 6$
 (1) 200 (2) 250 (3) 150 (4) 100 (5) 300
279. $\frac{679}{45} \div \frac{23}{2130} \times \frac{126}{169} = ?$
 (1) 540 (2) 760 (3) 800 (4) 1260 (5) 1040
280. $\sqrt{5687} \times \sqrt{1245} \div \sqrt{689} = ? \div 13$
 (1) 840 (2) 910 (3) 1320 (4) 1120 (5) 1550

Directions (Q. 281-285) : What value should come in place of question mark (?) in the following questions?

281. $\frac{12.96 + 17.28 + (2.4)^2}{0.49 + 0.42 + (0.3)^2} = ?^2$
 (1) 5.2 (2) 5.6 (3) 6.0 (4) 6.2 (5) 6.4
282. $(1.2)^{1.7} \times (1.44)^{0.7} \div (1.44)^{-1.45} \div (1.728)^2 = ?$
 (1) 1.2 (2) 1.44 (3) 1.728 (4) 2.0736 (5) None of these

19

283. $(10019)^2 = ?$
 (1) 100380361 (2) 100023249 (3) 100372281 (4) 100192190 (5) None of these

284. $\frac{3}{7}$ of $\frac{11}{5}$ of $\frac{5}{13}$ of 20475 = $275 \times ?$
 (1) 24 (2) 27 (3) 35 (4) 30 (5) 36

285. 340% of 745 = $2000 + ?\%$ of $\frac{1}{10}$
 (1) 53.30 (2) 5330 (3) 53300 (4) 533000 (5) None of these

Directions (Q. 286-290) : What approximate value should come in place of question mark (?) in the following questions?

286. 339% of 705.62 + 136% of 1329 = ?
 (1) 3600 (2) 4500 (3) 4200 (4) 3900 (5) 4800
287. $29.78 \times 14.12 + 40.65 \times 11.79 = ?$
 (1) 850 (2) 900 (3) 950 (4) 1000 (5) 1050
288. $570.80 \times 9.09 \times ? = 230855$
 (1) 45 (2) 49 (3) 41 (4) 54 (5) 59
289. $33.33 \times 333.3 = ?$
 (1) 10010 (2) 11000 (3) 11110 (4) 10111 (5) 10001
290. 1.71% of 1606 + 0.705% of 1005 = ?
 (1) 31 (2) 27 (3) 21 (4) 34 (5) 37

Directions (Q. 291-295) : What value should come in place of question mark (?) in the following questions?

291. $(14)^{0.2} \times (196)^{1.3} \times (2744)^{1.4} \div 38416 = (14)^?$
 (1) 5 (2) 4 (3) 3 (4) 2 (5) 1
292. $35 \times 85 = 83300 \div ?$
 (1) 25 (2) 26 (3) 27 (4) 28 (5) 30
293. $\sqrt{(10648)^{\frac{1}{3}} - (7776)^{\frac{1}{5}}} = \sqrt[6]{?}$
 (1) 46656 (2) 4096 (3) 16384 (4) 1296 (5) 1024
294. $\frac{1224}{?} = \frac{?}{306}$
 (1) 524 (2) 612 (3) 728 (4) 772 (5) 848
295. $\left(\frac{8}{15} + \frac{4}{25}\right) \times ? = 780$
 (1) 1125 (2) 1250 (3) 1280 (4) 1375 (5) 1420

Directions (Q. 296-300) : What approximate value should come in place of question mark (?) in the following questions?

296. 127% of 75 + 28% of 277 = ?
 (1) 162 (2) 173 (3) 181 (4) 187 (5) None of these
297. $\frac{(0.18)^2 + (1.6)^2}{0.08} = ?$
 (1) 24 (2) 28 (3) 32 (4) 36 (5) 40
298. $(59.842 \div 1.982) \times 6.97 - 17.77 \times 3.2 = ?$
 (1) 115 (2) 135 (3) 105 (4) 155 (5) 165
299. $\sqrt[3]{1330000} = ?$
 (1) 103 (2) 110 (3) 117 (4) 120 (5) 128
300. $\{(7878 + 333 + 632) - (11.9 \times 2.1 \times 7.09)\} \times 2.532 = ?$
 (1) 19600 (2) 20100 (3) 21700 (4) 22800 (5) 23000

Directions (Q. 301-305) : What value should come in place of question mark(?) in the following questions?

301. $(17)^{8.8} \times (289)^{-14} \div \frac{1}{(17)^{-1}} = 17 \times (17)^?$
 (1) 2 (2) 3 (3) 4 (4) 5 (5) 6
302. $2.4\% \text{ of } 775 + 8.4\% \text{ of } 525 = 30\% \text{ of } ?$
 (1) 201 (2) 203 (3) 205 (4) 207 (5) 209
303. $\{0.00102 \div 0.000017\} \times 17.75 = ?$
 (1) 1045 (2) 1055 (3) 1065 (4) 1075 (5) 1085
304. $(1728)^{\frac{2}{3}} \div (5832)^{-\frac{2}{3}} = ? \times 9$
 (1) 5184 (2) 7776 (3) 3888 (4) 11664 (5) 10368
305. $(1260 \div 28) \times 6.4 = 45\% \text{ of } ?$
 (1) 320 (2) 640 (3) 960 (4) 1280 (5) 1510

Directions (Q. 306-310) : What approximate value should come in place of question mark in the following questions? %

306. $159 \times 16 \times ? = 20300$
 (1) 6 (2) 8 (3) 10 (4) 12 (5) 15
307. $(141.98 \times 72.02) \div \sqrt{1300} = ?$
 (1) 215 (2) 245 (3) 285 (4) 325 (5) 355
308. $2.81\% \text{ of } 1724.98 + 1.739\% \text{ of } 555.05 = ?$
 (1) 24 (2) 39 (3) 58 (4) 72 (5) 84
309. $(1369.876 + 18.98 \times 19.98) \div 24.96 = ?$
 (1) 70 (2) 90 (3) 110 (4) 130 (5) 150
310. $(7391.9 \div \sqrt{1935}) + (17.98 \times 4.49) = ?$
 (1) 200 (2) 225 (3) 250 (4) 275 (5) 300

Directions (Q. 311-320) : What value should come in place of question mark(?) in the following questions?

311. $85\% \text{ of } \frac{4}{7} \text{ of } 6755 = ? + 1687$
 (1) 1586 (2) 1592 (3) 1594 (4) 1582 (5) None of these
312. $(5568 \div 87)^{\frac{1}{3}} + (72 \times 2)^{\frac{1}{2}} = (?)^{\frac{1}{2}}$
 (1) 256 (2) 4 (3) $\sqrt{2}$ (4) 16 (5) None of these
313. $\sqrt{13^2 + 28 \div 4 - (3)^3 + 107} = (?)^2$
 (1) 2 (2) 16 (3) 256 (4) 4 (5) $(256)^2$
314. $(0.49)^4 \times (0.343)^4 \div (0.2401)^4 = (70 \div 100)^{?+3}$
 (1) 3 (2) 1 (3) 4 (4) 7 (5) None of these
315. $45\% \text{ of } \sqrt{2025} \div 0.01 = (?)^2 + 25$
 (1) 3 (2) $(81)^2$ (3) 81 (4) 9 (5) None of these
316. Which of the following is the second largest?
 (1) $138.6 - 38.4 + 479.3$ (2) $36.5 - 844.6 + 1289$ (3) $931 - 564 + 156$
 (4) $564 - 213 + 120$ (5) $130 - 461 + 888$
317. Which of the following is the largest? (You are not expected to calculate the exact value.)
 (1) $(56 \times 15) \div 4^2$ (2) $(25 \times 72) \div 6^2$ (3) $(6 \times 441) \div 7^2$ (4) $(28 \times 78) \div 56$ (5) $(32 \times 48) \div 26$
318. Which of the following is the smallest? (You are not expected to calculate the exact value.)

$$(1) \left(\frac{5}{9} \text{ of } 1250\right)^{\frac{1}{2}} \quad (2) \left(\frac{7}{13} \text{ of } 4112\right)^{\frac{1}{3}} \quad (3) \left(\frac{5}{19} \text{ of } 3221\right)^{\frac{1}{2}} \quad (4) \left(\frac{15}{11} \text{ of } 412\right)^{\frac{1}{2}} \quad (5) \left(\frac{17}{13} \text{ of } 3444\right)^{\frac{1}{3}}$$

319. The cost of 8 dozen of eggs is Rs 256. Which calculation is needed to find the cost of 9 eggs?
 (1) $(9 \times 256) \times (8 \div 12)$ (2) $(12 \times 256) \div (8 \times 9)$ (3) $(8 \times 256) \div (9 \times 12)$
 (4) $(9 \times 256) \times (8 \times 12)$ (5) $(9 \times 256) \div (8 \times 12)$
320. 24% of $4568 \div 8\%$ of 246 is approximately equal to
 (1) 32 (2) 43 (3) 89 (4) 78 (5) 55

Directions (Q. 321-325) : What value should come in place of question mark (?) in the following questions?

321. 8.4% of $270 - 9.6\%$ of $105 = ?\%$ of 168
 (1) 2.5 (2) 5 (3) 7.5 (4) 10 (5) 12.5
322. $\sqrt{70.56} \div (70.56)^{\frac{3}{2}} = (8.4)^?$
 (1) 3 (2) 4 (3) 5 (4) 6 (5) 7
323. 17.5% of $1520 - 8.75\%$ of $1200 = ?\%$ of 2576
 (1) 5.25 (2) 6.25 (3) 7.25 (4) 8.25 (5) 9.25
324. $8\frac{2}{3}$ of $1263 + 4\frac{5}{9}$ of $1179 = ? \times 9$
 (1) 1809 (2) 1810 (3) 1811 (4) 1812 (5) 1813
325. 32% of $885 - 20\%$ of $66 = 75\%$ of ?
 (1) 300 (2) 320 (3) 340 (4) 360 (5) 380

Directions (Q. 326-330) : What approximate value should come in place of question mark (?) in the following questions?

326. $\sqrt{164} \times \sqrt[3]{615} = ?$
 (1) 70 (2) 90 (3) 110 (4) 130 (5) 150
327. $(\sqrt{485} \times 3.48) \times 12.08 = ?$
 (1) 900 (2) 925 (3) 950 (4) 975 (5) 1000
328. $29.03 \times 24.96 - 7.98 \times \sqrt[3]{3370} = ?$
 (1) 450 (2) 500 (3) 550 (4) 600 (5) 650
329. 245% of $49.962 - 115.03\%$ of $41.89 = ?$
 (1) 75 (2) 125 (3) 175 (4) 225 (5) 275
330. $\sqrt{5930} \times \sqrt[3]{43} = ?$
 (1) 250 (2) 260 (3) 270 (4) 280 (5) 290

Directions (Q. 331-335) : What value should come in place of question mark (?) in the following questions?

331. 144% of $75 - 48\%$ of $150 + 4.8\%$ of $2250 = 12.5\%$ of ?
 (1) 1136 (2) 1152 (3) 1168 (4) 1184 (5) 1216
332. $\frac{3}{8}$ of $\frac{2}{5}$ of $\frac{13}{7}$ of 35% of $107800 = ?$
 (1) 10410.5 (2) 10510.5 (3) 10610.5 (4) 10710.5 (5) 10810.5
333. $\{\sqrt{2} \times (174)\}^2 + \{\sqrt{2} \times (84)\}^2 = ?$
 (1) 74634 (2) 74644 (3) 74654 (4) 74664 (5) 74674
334. $3\frac{2}{3} + 1\frac{3}{4} - 6\frac{1}{2} + 3\frac{2}{7} = ?$
 (1) $3\frac{11}{84}$ (2) $5\frac{13}{84}$ (3) $2\frac{17}{84}$ (4) $4\frac{15}{84}$ (5) $6\frac{19}{84}$

335. $(1331)^{\frac{2}{3}} \times (484)^{-\frac{1}{2}} \div (121)^{-1} = (11)^? \div 2$

- (1) 2 (2) 3 (3) 4 (4) 5 (5) 6

Directions (Q. 336-340) : What approximate value should come in place of question mark (?) in the following questions?

336. $\left\{ \sqrt{2300} \div \frac{11.98}{8.51} \right\} \times 7.48 = ?$

- (1) 225 (2) 235 (3) 245 (4) 255 (5) 265

337. $\{10.71\% \text{ of } 1984.96 + 3.89\% \text{ of } 1451\} \div (12.49)^{-1} = ?$

- (1) 3120 (2) 3360 (3) 3540 (4) 3780 (5) 3900

338. $\left\{ \sqrt{33850} \times \sqrt[3]{91100} \right\} \div 8.98 = ?$

- (1) 720 (2) 820 (3) 920 (4) 1020 (5) 1120

339. $\{(219.06 \times 24.98) - (23.84 \times 55.05)\} \times 8.49 = ?$

- (1) 31500 (2) 32500 (3) 33500 (4) 34500 (5) 35500

340. $(\sqrt{1120} \times 183.98) + 465.02\% \text{ of } 171.95 = ?$

- (1) 6960 (2) 6760 (3) 6560 (4) 6360 (5) 6160

Directions (Q. 341-345) : What value should come in place of question mark(?) in the following questions?

341. $\sqrt{(46656)^{\frac{1}{3}}} + \sqrt{462.25} = \sqrt{(?)}$

- (1) 702.25 (2) 812.25 (3) 756.25 (4) 746.25 (5) None of these

342. $\frac{1}{6} \text{ of } 42\frac{6}{7}\% \text{ of } 71\frac{3}{7}\% \text{ of } 4116 = ?$

- (1) 245 (2) 210 (3) 205 (4) 215 (5) None of these

343. $88\% \text{ of } 1500 + 75\% \text{ of } 340 = ?\% \text{ of } 630$

- (1) 205 (2) 250 (3) 235 (4) 225 (5) 215

344. $\left\{ 6^{3.6} \div (36)^{-4.2} \right\}^{\frac{1}{4}} = \sqrt{?}$

- (1) 46566 (2) 46626 (3) 46256 (4) 46656 (5) 46216

345. $\sqrt{32041} \times \sqrt{3364} - (56)^2 = 387 + (?)^3$

- (1) 27 (2) 17 (3) 19 (4) 13 (5) 14

Directions (Q. 346-350) : What approximate value should come in place of question mark (?) in the following questions?

346. $131.01\% \text{ of } 454.87 + 341.005\% \text{ of } 129.95 = 259.99\% \text{ of } ?$

- (1) 412 (2) 402 (3) 509 (4) 392 (5) None of these

347. $\sqrt[3]{5830} + \sqrt{10600} = \sqrt[4]{(?)^2}$

- (1) 14641 (2) 15740 (3) 13998 (4) 13540 (5) None of these

348. $\sqrt{144.98\% \text{ of } 2163.05} = 23\frac{1}{3}\% \text{ of } ?$

- (1) 260 (2) 240 (3) 250 (4) 252 (5) None of these

349. $\frac{26096}{9790} \div \frac{7410}{1640} \times \frac{4656}{392.05} = \sqrt{?}$

- (1) 49 (2) 64 (3) 81²³ (4) 36 (5) None of these

350. $46\frac{7}{9}\%$ of 438.987 + 445.88% of 370.198 = ?

- (1) 2550 (2) 1560 (3) 1860 (4) 1925 (5) None of these

Directions (Q. 351-355) : What value should come in place of question mark (?) in the following questions?

351. $3749.3409 - 2959.9987 - 1350.009 + 2309.9413 + 13.0405 = ? + 113.45$

- (1) 1738.865 (2) 1638.865 (3) 1648.865 (4) 1638.785 (5) 1783.7769

352. 137.5% of 3375 - 4352% of 73.5 = ? - $\frac{3}{11}$ of 14641

- (1) 3744.905 (2) 5443.905 (3) 5472.905 (4) 5437.905 (5) 5434.905

353. $67620 - 345 \times 14 + 3584 \div 14 = ? - 4158 \div 297$

- (1) 1994 (2) 3173 (3) 2174 (4) 3014 (5) 2054

354. $? - 115.94 \div 3.41 = 10.006 \times 0.36 \div 0.012 + 1.0034$

- (1) 35.0214 (2) 35.0184 (3) 35.1834 (4) 34.1834 (5) 36.1834

355. $5.8 \times 2.5 + 0.6 \times 6.75 + 139.25 = ?$

- (1) 157.30 (2) 157.80 (3) 158.40 (4) 160.30 (5) None of these

Directions (Q. 356-360) : What approximate value should come in place of question mark (?) in the following questions?

356. $29.099 \times 8.807 \times 17.901 = ?$

- (1) 4588 (2) 4688 (3) 4605 (4) 4412 (5) 4433

357. $4\frac{7}{8} \times 7\frac{4}{5} \times 3\frac{4}{5} = ?$

- (1) 118 (2) 192 (3) 144 (4) 180 (5) 130

358. $(50243408)^{\frac{1}{3}} - (48627124)^{\frac{1}{3}} = ? - (7529535)^{\frac{1}{3}}$

- (1) 190 (2) 200 (3) 118 (4) 178 (5) 214

359. 14.7% of 841 + 23.7% of 631 = ? + 14.039% of 781

- (1) 184 (2) 175 (3) 160 (4) 199 (5) 214

360. $(862.415)^2 - (798.375)^2 = (37.375)^2 - (191.499)^2 + ?$

- (1) 141750 (2) 141630 (3) 151832 (4) 435614 (5) 178265

Directions (Q. 361-365) What value should come in place of question mark (?) in the following questions?

361. $35\frac{5}{7}\%$ of 615 + $77\frac{7}{9}\%$ of 5886 = ?% of 6126 + 50% of 5638

- (1) 60 (2) $66\frac{2}{3}$ (3) 45 (4) 47 (5) None of these

362. $\sqrt{262144} + (15129)^{\frac{1}{2}} = \sqrt{(6561)^{\frac{1}{2}}} + ?$

- (1) 188 (2) 168 (3) 178 (4) 158 (5) None of these

363. 36% of 6550 + 80% of 5625 = ? % of 4560 + 60% of 9530

- (1) 25 (2) 30 (3) 20 (4) 35 (5) None of these

364. $(27)^2 + \sqrt[3]{5832} = ?\%$ of 5976

- (1) $12\frac{1}{2}$ (2) 15 (3) 10 (4) 14 (5) None of these

365. $7\frac{3}{4} \div 46\frac{1}{2} \times 8\frac{2}{3} + 2\frac{5}{9} = (?)^2$

- (1) 3 (2) 4 (3) 5 (4) 2 (5) None of these

Directions (Q. 366-370): What approximate value should come in place of question mark(?) in the following questions?

366. 78.99% of 9875.99 - 38.09% of 6785.05 = 2479.05 + ? of 4895.99

- (1) 56.0% (2) 50.5% (3) 48.9% (4) 60.06% (5) None of these

367. $\sqrt{(4095.99)^{\frac{1}{3}} \times \sqrt{65535.89}} = (?)^2$

- (1) 24 (2) 11 (3) 16 (4) 64 (5) 32

368. $5030.05 \div 42.93 + 24.49\% \text{ of } 5049.93 \div 100 = ?$

- (1) 150 (2) 170 (3) 130 (4) 90 (5) None of these

369. $59220 \div 3214.05 \times 514.13 + 5231.92 = ?$

- (1) 13617 (2) 13695 (3) 13823 (4) 13511 (5) None of these

370. $\sqrt[3]{6850} \times \sqrt{12540} = ? \times 52$

- (1) 41 (2) 39 (3) 38 (4) 43 (5) None of these

Directions (Q. 371-375) : What value should come in place of question mark (?) in the following questions?

371. 13.2% of 142 - 23.4% of 56 = 24% of ?

- (1) 22.5 (2) 23.5 (3) 23 (4) 24.5 (5) None of these

372. $(47.2)^2 + (52.6)^2 - (23.1)^2 = ? + 2142.69$

- (1) 2118.3 (2) 2209.3 (3) 2318.30 (4) 2445.48 (5) None of these

373. $\sqrt{11449} \times \sqrt{16641} \times \sqrt[3]{35937} \div 9 + 2033 = ?$

- (1) 52744 (2) 53644 (3) 56244 (4) 52644 (5) None of these

374. $4\frac{19}{32} \times 3\frac{1}{21} \times 2\frac{5}{8} = ? + 15\frac{1}{2}$

- (1) 12.25 (2) 20.25 (3) 28.25 (4) 22.25 (5) None of these

375. $\frac{7}{13} \text{ of } 33\frac{1}{3}\% \text{ of } 18.75\% \text{ of } 6240 = ?\% \text{ of } 840$

- (1) 25 (2) 24 (3) 23 (4) 26 (5) None of these

Directions (Q. 376-380) : What approximate value should come in place of question mark (?) in the following questions?

376. $\sqrt{6398.99} \div \sqrt[3]{4099.99} \times 24.89 = (?)^3$

- (1) 4 (2) 5 (3) 7 (4) 6 (5) 3

377. $(87.65\% \text{ of } 7159.89 - 68.99\% \text{ of } 8939.89) \times 6.06 = (?)^2$

- (1) 20 (2) 22 (3) 21 (4) 28 (5) 30

378. $449.03 \times 345.88 \div 64 = 40.02\% \text{ of } ?$

- (1) 6232 (2) 6065 (3) 6512 (4) 5831 (5) 5932

379. $37.9\% \text{ of } 638.05 + 25.25\% \text{ of } 4401.9 = ?$

- (1) 1320 (2) 1415 (3) 1270 (4) 1345 (5) None of these

380. $833.956 - 543.005 - 108.98 = 19.8\% \text{ of } ?$

- (1) 940 (2) 890 (3) 880 (4) 910 (5) None of these

Directions (Q. 381-385) : What value should come in place of question mark (?) in the following questions?

381. $(609)^2 + 25\% \text{ of } 200 - \frac{3}{4} \text{ of } 1976 = ?$

- (1) 369439 (2) 369429 (3) 369419 (4) 369449 (5) 379449
382. $\sqrt{17161} \times 18 + 92 \times 94 + \frac{2}{5}$ of 125 = ?
 (1) 11054 (2) 11354 (3) 11056 (4) 12346 (5) 10156
383. ?% of 650 + 40% of 525 = 275
 (1) 12 (2) 15 (3) 10 (4) 13 (5) 8
384. $\sqrt{12167} \times \sqrt{11881} + 70\%$ of 6210 = ?
 (1) 6823 (2) 7853 (3) 6854 (4) 9231 (5) 8454
385. $\sqrt[3]{35937} \times \sqrt[3]{1331} \div \sqrt{121} + 60\%$ of 1295 = ?
 (1) 895 (2) 890 (3) 610 (4) 810 (5) 980

Directions (Q. 386-390): What approximate value should come in place of question mark (?) in the following questions?

(Note: You are not expected to calculate the exact value.)

386. $\sqrt{795664} \times \sqrt[3]{5832} - \sqrt{675.9932} = ?$
 (1) 16230 (2) 16334 (3) 16030 (4) 14030 (5) 17030
387. $1325\sqrt{16.0123} + 25\%$ of 161.043 - $\frac{3}{4}$ of 84.31 = ?
 (1) 5201 (2) 5400 (3) 5537 (4) 5280 (5) 5013
388. 0.5% of 449.93 $\times$ 0.8% of 674 = ?
 (1) 122 (2) 110 (3) 146 (4) 152 (5) 190
389. $\frac{2}{5}$ of $\sqrt[3]{91125} \times \sqrt{324.0013} \div \frac{2}{5}$ of 44.9934 = ?
 (1) 13 (2) 24 (3) 35 (4) 18 (5) 29
390. 85% of 225 + 43.012 $\times$ 42.9873 - 40% of 149.90
 (1) 1909 (2) 1980 (3) 1849 (4) 1921 (5) 1995

Directions (Q. 391-395): What value should come in place of question mark (?) in the following questions?

391. 15% of 240 + $\sqrt{11449} - 25\%$ of 160 = ?
 (1) 109 (2) 112 (3) 116 (4) 103 (5) None of these
392. $(64)^{4.5} \times (4096)^{3.4} \div (16)^{1.5} \times (4)^3 = ?$
 (1) $4^{43.8}$ (2) $4^{42.9}$ (3) $4^{40.8}$ (4) $4^{33.9}$ (5) None of these
393. $(207)^2 + 20\%$ of 200 $\times \sqrt{1225} - 25\%$ of 160 = ?
 (1) 46409 (2) 49409 (3) 44209 (4) 35409 (5) None of these
394. $\sqrt{9216} \times \sqrt[3]{1728} - 40\%$ of 1200 = ?
 (1) 685 (2) 772 (3) 840 (4) 672 (5) None of these
395. $\frac{2}{5}$ of $\frac{1}{4}$ of $\frac{5}{3}$ of $\sqrt[3]{46656} = ?$
 (1) 12 (2) 9 (3) 6 (4) 15 (5) None of these

Directions (Q. 396-400): What approximate value should come in place of question mark (?) in the following questions?

396. $33\frac{1}{3}\%$ of $\sqrt[3]{1728} + 12.5\%$ of $161.005 \times 40\%$ of $1099.97 = ?$
 (1) 9204 (2) 9924 (3) 8503 (4) 8804 (5) 8954
397. $[(941192)^{\frac{1}{3}} - (110592)^{\frac{1}{3}}]^2 = ?$
 (1) 2600 (2) 2793 (3) 2973 (4) 2501 (5) None of these
398. 85% of $225 + 32.98 \times 6.003 = ?$
 (1) 469 (2) 349 (3) 389 (4) 421 (5) 399
399. 25% of $\sqrt{4096.00139} \times \frac{2}{5}$ of $(35)^2 - \frac{2}{5}$ of $39.01 = ?$
 (1) 7213 (2) 7014 (3) 7814 (4) 7921 (5) 7521
400. $16\frac{1}{99} \times 5\frac{2}{105} + ? = 90\frac{98}{99}$
 (1) 15 (2) 18 (3) 21 (4) 11 (5) 26

Directions (Q. 401-405): What should come in place of question mark (?) in the following questions?

401. $5003 \times 99 - 194661 = ? \times 126$
 (1) 2377 (2) 2386 (3) 2486 (4) 2586 (5) 2468
402. $[(6\sqrt{11} + \sqrt{11}) \times (7\sqrt{11} + 9\sqrt{11})] - (29)^2 = ?$
 (1) 402 (2) $110\sqrt{11}$ (3) $112\sqrt{11}$ (4) 391 (5) 389
403. $8\frac{9}{47} \times 9\frac{13}{56} \times 7\frac{7}{11} \div 2\frac{4}{9} - 6\frac{3}{5} = ?$
 (1) 488.4 (2) 420 (3) 223.6 (4) 413.6 (5) 229.65
404. $\sqrt{35721} \times \sqrt{4624} - (86)^2 = 543 + (?)^3$
 (1) 18 (2) 19 (3) 17 (4) 16 (5) 13
405. $? = 77.5\%$ of $230 + 75\%$ of $22 + 35\%$ of 140
 (1) 240.75 (2) 243.75 (3) 253.75 (4) 243.25 (5) None of these

Directions (Q. 406-410): What approximate value should come in place of question mark (?) in the following questions?

406. $3\sqrt{59322} \times (248 \div 11) = (?)^2$
 (1) 36 (2) 35 (3) 39 (4) 41 (5) None of these
407. 177.5% of $2480 + 63.002 \times 19.995 - 61.899 = ?$
 (1) 5500 (2) 5400 (3) 5600 (4) 5650 (5) 5760
408. $\frac{7}{16} \times 8022.66 + \frac{11}{20} \times 6822.44 = ?$
 (1) 7260 (2) 7290 (3) 7210 (4) 7300 (5) 7200
409. $97975 \div 545 \times \sqrt[3]{515} = ?$
 (1) 1400 (2) 1500 (3) 1480 (4) 1540 (5) 1440
410. $289.089 \times 4.27 + 5.004 \times 333.918 = ?$
 (1) 2800 (2) 2850 (3) 2950 (4) 2900 (5) None of these

Directions (Q. 411-415): What will come in place of question mark(?) in the following questions?

411. $(16)^{7.2} \div (4096)^{1.6} \times (65536)^{-1.2} \div (1048576)^{-1} = (16)^?$

27

- (1) 2.4 (2) 2.8 (3) 3 (4) 2.6 (5) 3.2
412. $45.5\% \text{ of } 1160 + 13.5\% \text{ of } 720 = ?\% \text{ of } 6000$
 (1) 6 (2) 9.32 (3) 10.42 (4) 5 (5) 12
413. $(77777 \div 700) + (6455 \div 250) + (3991 \div 26) = ?$
 (1) 290.43 (2) 390.41 (3) 295.33 (4) 288.42 (5) None of these
414. $\{6^{3.6} \div (36)^{-4.2}\}^{1/4} = \sqrt{?}$
 (1) 41616 (2) 43264 (3) 44944 (4) 46656 (5) 47524
415. $23564 \times 275 - 430100 = ? \times 605$
 (1) 10^3 (2) 101000 (3) 10000 (4) 10^6 (5) 102000

Directions (Q. 416-420): What approximate value should come in place of question mark (?) in the following questions? (Note: You are not expected to calculate the exact value.)

416. $512.01 \times 412.99 \div 119 = ?$
 (1) 1720 (2) 1740 (3) 1820 (4) 1845 (5) 1775
417. $1699.99 \times 299.88 \div 59.9 - 1498 + 3745 = ?$
 (1) 10980 (2) 11700 (3) 11000 (4) 10750 (5) 9800
418. $(13.96)^2 + (16.23)^2 + (17.26)^2 - 32.95 = ?$
 (1) 790 (2) 720 (3) 840 (4) 780 (5) 680
419. $1624.98 \times 29.92 + 468.75 = ?$
 (1) 49290 (2) 48220 (3) 49220 (4) 47220 (5) 46365
420. $8499.99 \div 375.002 \times 14.996 = ?$
 (1) 360 (2) 290 (3) 480 (4) 380 (5) 340

Directions (Q. 421-425): What should come in place of question mark (?) in the following questions?

421. $\sqrt{24} + \sqrt{96} + \sqrt{216} + \sqrt{384} = 5\sqrt{2} \times ?$
 (1) $6\sqrt{3}$ (2) $4\sqrt{3}$ (3) $2\sqrt{3}$ (4) $5\sqrt{3}$ (5) $3\sqrt{3}$
422. $189\frac{2}{9} + 189\frac{3}{9} + 189\frac{4}{9} + 189\frac{5}{9} + 189\frac{6}{9} + 189\frac{7}{9} = ?$
 (1) 1138 (2) 1037 (3) 1237 (4) 1238 (5) 1137
423. $\sqrt{1369} \times \sqrt{1444} + \sqrt{?} = 1420$
 (1) 14 (2) 196 (3) 198 (4) 194 (5) 16
424. $\sqrt{6889} + \sqrt{3721} + \sqrt{1024} - \sqrt{2401} = ?$
 (1) 129 (2) 128 (3) 127 (4) 124 (5) 123
425. $3001 \times 99 \div 11 - 6001 \times 8 + 401 \times 11 + (303)^2 = ?$
 (1) 76125 (2) 76129 (3) 75000 (4) 75221 (5) 74532

Directions (Q. 426-430): What approximate value should come in place of question mark(?) in the following questions?

426. $38\% \text{ of } 3976 + (32)^2 - 13\% \text{ of } 8271 + \frac{7}{6} \times 3400 = ?$
 (1) 5427 (2) 5325 (3) 5537 (4) 5612 (5) 5554
427. $987.67 \times 123.35 \div 9 = ?$
 (1) 13411 (2) 13621 (3) 13489 (4) 13551 (5) 13721

428. $\sqrt{80} \times \frac{35}{6} \times (21)^2 + 343 = ?$

- (1) 21125 (2) 22981 (3) 20781 (4) 23159 (5) 21230

429. $4 \times (\sqrt{3} + \sqrt{4})^2 + 6(\sqrt{5} + \sqrt{6})^2 - 3(\sqrt{2} + \sqrt{3})^2 = ?$

- (1) 167 (2) 123 (3) 157 (4) 153 (5) 149

430. $\frac{331}{30} + \frac{661}{60} + \frac{704}{11} - 35.013 + 36.026 = ?$

- (1) 69 (2) 67 (3) 83 (4) 89 (5) 85

Directions (Q. 431-435) : What should come in place of question mark (?) in the following questions?

431. $[(3024 \div 189)^{\frac{1}{2}} + (684 \div 19)^2] = (?)^2 + 459$

- (1) - 27 (2) 29 (3) 841 (4) 1089 (5) 927

432. $(0.0729 \div 0.1)^3 \div (0.081 \times 10)^5 \times (0.3 \times 3)^5 = (0.9)^{?+3}$

- (1) 2 (2) 0.5 (3) 1 (4) 3.9 (5) 4

433. $(204 \times 111) + (222 \times 101) - (33 \times 11) + \sqrt{4225} - \sqrt{3721} = ?$

- (1) 43139 (2) 42232 (3) 39201 (4) 44707 (5) 40501

434. $9937 \div 19 \times 12029 \div 23 + 54 = ?$

- (1) 26179 (2) 273583 (3) 331257 (4) 28532 (5) 31241

435. $1739 \div 47 + 2679 \div 57 + 3819 \div 67 + 5159 \div 77 + 6699 \div 87 + 1245 \div 83 = ?$

- (1) 315 (2) 300 (3) 285 (4) 250 (5) 245

Directions (Q. 436-440): What approximate value should come in place of question mark (?) in the following questions?

436. $\sqrt{2645} + \sqrt{1805} + \sqrt{2205} - \sqrt{1445} = ?$

- (1) $46\sqrt{5}$ (2) $15\sqrt{3}$ (3) 48 (4) $27\sqrt{5}$ (5) $23\sqrt{3}$

437. $\frac{\sqrt{8835}}{2} + \frac{(21952)^{\frac{1}{3}}}{7} = \sqrt{6240} - ?$

- (1) 29 (2) 30 (3) 28 (4) 25 (5) 26

438. $[\sqrt{5041} - \sqrt{4489}]^{\frac{1}{2}} \times 0.03 + 37 = ?$

- (1) 36 (2) 37 (3) 47 (4) 35 (5) 34

439. $23\frac{11}{25} + 47\frac{22}{45} - 17\frac{2}{5} - 0.03 + 25.729 = ?$

- (1) 85 (2) 84 (3) 75 (4) 76 (5) 80

440. $(216)^{\frac{1}{3}} + (625)^{\frac{1}{4}} + (1024)^{\frac{1}{2}} - 49.57 + 23.89 = ?$

- (1) 20 (2) 23 (3) 17 (4) 19 (5) 28

Directions (Q. 441-445): What will come in place of question mark(?) in the following questions?

441. $[(7164 \div 199)^{\frac{1}{2}} + (972 \div 27)^2] = (?)^2 + 518$

- (1) -27 (2) 28 (3) 29 (4) 31 (5) 784

442. 6.4 times $\frac{3}{5}$ of 70% of 780 = ?
 (1) 209.664 (2) 2096.64 (3) 2396.64 (4) 2200 (5) 96
443. $(0.0841 \div 0.01)^3 \div (2.9)^2 = (2.9)^{? - 6}$
 (1) 3 (2) 5 (3) 8 (4) 10 (5) 2
444. $(\sqrt{?} \% \text{ of } \sqrt{1849} \times 20) + 22.7 = 2602.7$
 (1) 90 (2) 2580 (3) 900 (4) 86 (5) 80
445. $(39)^2 \times 3 \div 13 + (9)^3 + 81 = (?)^3 - 170$
 (1) 1331 (2) 1161 (3) 110 (4) 13.31 (5) 11

Directions (Q. 446-450): What should come in place of question mark(?) in the following questions?

446. $\sqrt{13^2 + 725 \div 25 + 27 + 259} = ?$
 (1) 27 (2) 22 (3) 36 (4) $\sqrt{22}$ (5) 18
447. $\sqrt{65.61} \div 0.9 \times 81 = (?)^2 \times 3$
 (1) 3 (2) 9 (3) 27 (4) 4 (5) 5
448. $15\frac{2}{33} - 14\frac{17}{66} + 18\frac{19}{231} = ?$
 (1) $19\frac{409}{462}$ (2) $18\frac{53}{409}$ (3) $17\frac{409}{462}$ (4) $18\frac{409}{462}$ (5) $18\frac{409}{231}$
449. 69% of 730 + 409.3 + 25% of ? = 1923
 (1) 1010 (2) 4020 (3) 4040 (4) 1040 (5) 2040
450. $(1.44)^4 \div (1728 \div 1000)^3 \times (0.12 \times 10)^3 = (1.2)^{? - 2}$
 (1) 6 (2) 2 (3) 3 (4) 7 (5) 4

Directions (Q. 451-455): What approximate value will come in place of question mark(?) in the following question? (You are not expected to calculate the exact value).

451. 78% of 810 + 26% of 735 - 619.29 = ?
 (1) 104 (2) 240 (3) 204 (4) 230 (5) 194
452. $(692.478)^2 + (305.2)^2 - (367.654)^2 = ?$
 (1) 43646 (2) 436465 (3) 463465 (4) 363465 (5) 435465
453. $\sqrt[3]{6859} \div 0.189 + 23\% \text{ of } 4200 + ? \% \text{ of } 520 = 1555.66$
 (1) 94 (2) 98 (3) 100 (4) 84 (5) 90
454. $6780 \div 240 \times 35 = ? \times 3.75$
 (1) 285 (2) 295 (3) 275 (4) 265 (5) 365
455. $13.275 \times 15.485 + \frac{2.29}{64} \text{ of } 4.83 + 189.25 = ?$
 (1) 490 (2) 590 (3) 492 (4) 382 (5) 392

Directions (Q. 456-460): What should come in place of question mark (?) in the following questions?

456. $(28 - 10\sqrt{3})^{\frac{1}{2}} + (7 + 4\sqrt{3})^{\frac{1}{2}} = ?$
 (1) 4 (2) 7 (3) 3 (4) 4.3 (5) 5
457. $? = \frac{(0.99)^3 + (0.98)^3}{0.99 \times 0.99 - 0.99 \times 0.98 + 0.98 \times 0.98}$

- (1) 1.85 (2) 2.15 (3) $1.97^{\frac{30}{}}$ (4) 0.97 (5) 1.25

458. $\left(\frac{64}{125}\right)^2 \times \left(\frac{4}{5}\right)^4 \times \left(\frac{16}{25}\right)^{2 \times ? + 1} = \left(\frac{256}{625}\right)^{3 \times ?}$

- (1) $\frac{3}{2}$ (2) $\frac{1}{3}$ (3) $\frac{2}{3}$ (4) $\frac{1}{2}$ (5) $\frac{3}{4}$

459. $189\frac{42}{47} + 289\frac{43}{47} + 389\frac{44}{47} - 219\frac{37}{47} - 125\frac{13}{47} = ?$

- (1) $520\frac{23}{79}$ (2) $521\frac{73}{47}$ (3) $522\frac{74}{55}$ (4) $518\frac{23}{47}$ (5) $524\frac{32}{47}$

460. $\sqrt{9409} + \sqrt{9604} + \sqrt{9801} - \sqrt{1369} - \sqrt{1156} - \sqrt{3721} = ?$

- (1) 320 (2) 161 (3) 262 (4) 162 (5) 363

Directions (Q. 461-465): What approximate value should come in place of question mark (?) in the following questions?

461. $3969 \times 63 - \sqrt{4225} - (274625)^{\frac{1}{3}} + 35 - 38.042 - 0.981 + 0.63 = ?$

- (1) 215354 (2) 292769 (3) 250013 (4) 249912 (5) 285412

462. $28.95 \times 7.26 + \frac{34}{16} - \frac{23}{12} \times 2 + 2\frac{5}{11} - (0.34 \times 2.11) = ?$

- (1) 310 (2) 322 (3) 290 (4) 125 (5) 210

463. $98\% \text{ of } 98989 - 78\% \text{ of } 43549 + 64\% \text{ of } 75892 + 34.095 = ?$

- (1) 65328 (2) 111645 (3) 111465 (4) 169235 (5) 110645

464. $707 \times 111 + 601 \times 222 + 501 \times 333 - 51 \times 11 - 61 \times 22 - 0.39 = ?$

- (1) 376829 (2) 233215 (3) 378729 (4) 295242 (5) 283122

465. $\sqrt{79} + \sqrt{81} - \sqrt{15} + \sqrt{16} + (35.07 \times 3.21) = ? + 5.91$

- (1) 124 (2) 140 (3) 110 (4) 130 (5) 150

Directions (Q. 466-470): What should come in place of question mark (?) in the following questions?

466. $[531441]^{\frac{1}{3}} \div 9 \times \frac{\sqrt{4096}}{8} + \frac{\sqrt{6561}}{9} - 16 = ?$

- (1) 62 (2) 65 (3) 64 (4) 63 (5) 61

467. $\sqrt{294} + \sqrt{726} + \sqrt{1176} + \sqrt{486} - \sqrt{600} = ?$

- (1) $32\sqrt{6}$ (2) $34\sqrt{4}$ (3) $31\sqrt{6}$ (4) $31\sqrt{4}$ (5) $35\sqrt{4}$

468. $27\frac{13}{30} + 23\frac{14}{25} + 28\frac{12}{15} - 17\frac{21}{45} + 0.85 - 0.37 = ?$

- (1) $62\frac{121}{150}$ (2) $62\frac{142}{79}$ (3) $63\frac{194}{67}$ (4) $59\frac{189}{59}$ (5) $57\frac{167}{43}$

469. $16^{4.2} \times 256^{2.1} \times 14^2 \times 196^{3.2} = ?$

- (1) $(224)^{8.4}$ (2) $(326)^{7.4}$ (3) $(324)^{8.4}$ (4) $(340)^{7.4}$ (5) $(240)^{8.4}$

470. $(474552)^{\frac{1}{3}} - (6084)^{\frac{1}{2}} + 78 - 7.8 = ?$

- (1) 78.2 (2) 70.2 (3) 84.9 (4) 85.8 (5) 82.4

Directions (Q. 471-475): What approximate value should come in place of question mark (?) in the following questions? (Note: You are not expected to calculate the exact value.)

LEARN MATHS FROM S.K. RAJU (9811549822, 9811649822)

31

471. $0.003 \times 0.9 \times 0.005 \times 0.2 + 0.008 \times 0.5 + 23.85 - 21.05 = ?$
 (1) 17 (2) 11 (3) 3 (4) 5 (5) 6
472. $(2356.237 \times 4.5) - 1357.895 + 1124.237 - 425.231 + (35 \times 0.23) = ?$
 (1) 9052 (2) 9952 (3) 11735 (4) 10952 (5) 9852
473. $\sqrt{8836} \times 20 \times 4.25 + \sqrt{5041} \times 10 \times 8.75 - \sqrt{4489} \times 5 \times 1.25 = ?$
 (1) 13772 (2) 12255 (3) 12485 (4) 11850 (5) 13785
474. $2222.1 \times 11 + 3333.1 \times 11.01 + 4444 \times 11 + 5555 \times 11 - 6666.1 \times 11 + 333 \times 121 = ?$
 (1) 130861 (2) 136161 (3) 138061 (4) 149061 (5) 159061
475. $472.05 \times 101.32 + 337 + 472 - 137 \times 0.5 \div 2 = ?$
 (1) 48447 (2) 55342 (3) 58947 (4) 40132 (5) 35000

Directions (Q. 476-480): What will come in place of question mark (?) in the following questions?

476. $(\sqrt{7} - \sqrt{10})^2 + (\sqrt{5} + \sqrt{14})^2 = (?)^3 - 28$
 (1) $\sqrt{2}$ (2) 4 (3) $\sqrt{6}$ (4) 3 (5) 6
477. $64\% \text{ of } \sqrt{409600} \div 1.6 = ? \times 2.56$
 (1) 10 (2) 256 (3) 160 (4) 100 (5) 64
478. $38.4\% \text{ of } 1450 + 78.2\% \text{ of } 240 - ?^2 = 20\% \text{ of } 77.4$
 (1) 17 (2) 19 (3) 27 (4) 81 (5) 23
479. $(2.89)^4 \div (4913 \div 1000)^3 \times (0.17 \times 10)^3 = (1.7)^{? - 3}$
 (1) 4 (2) 6 (3) 2 (4) 5 (5) 0
480. $\sqrt[3]{5.832} + 35\% \text{ of } 6500 - ?\% \text{ of } 1250 = 222.8$
 (1) 164.32 (2) 184.23 (3) 174.32 (4) 194.23 (5) 144.321

Directions (Q. 481-485): What approximate value should come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value).

481. $69\% \text{ of } 1298 + 27\% \text{ of } 729 - 469 = ?$
 (1) 524 (2) 624 (3) 725 (4) 583 (5) 423
482. $9685 \div 125 \times 14 = ? \times 6$
 (1) 181 (2) 201 (3) 281 (4) 171 (5) 168
483. $(67.5)^2 - (43.2)^2 - (12.9)^2 = ?$
 (1) 2501 (2) 2450 (3) 2425 (4) 2525 (5) 5225
484. $169\% \text{ of } 1798.98 + 6.25\% \text{ of } 1452 - 349\% \text{ of } 749 = ?$
 (1) 428 (2) 602 (3) 528 (4) 628 (5) 728
485. $\frac{779}{3.5} + \sqrt[3]{1331} + ?\% \text{ of } 650 = 185.25$
 (1) 35 (2) 25 (3) 45 (4) 55 (5) 65

Directions (Q. 486-490): What will come in place of question mark (?) in the following questions?

486. $\{(42875)^{\frac{1}{3}} + (46656)^{\frac{1}{3}} + 9\} \times \{(39304)^{\frac{1}{3}} + (35937)^{\frac{1}{3}} - 7\} \div \frac{(16)^2}{4} = ?$
 (1) 74 (2) 78 (3) 70 (4) 75 (5) 72
487. $38\frac{28}{17} + 49\frac{19}{17} + 121\frac{21}{17} + 234\frac{25}{17} - 129\frac{22}{17} - 89\frac{29}{17}$

32

- (1) $232\frac{8}{17}$ (2) $220\frac{8}{17}$ (3) $226\frac{8}{17}$ (4) $245\frac{9}{17}$ (5) $226\frac{9}{17}$

488. $101 \times 98 + 202 \times 90 + 300 \times 101 + 400 \times 101 - 505 \times 101 = ?$

- (1) 57773 (2) 62654 (3) 37773 (4) 98198 (5) 47773

489. $\sqrt{1225} + \sqrt{5625} - \sqrt{4761} + (2197)^{\frac{1}{3}} \times (2744)^{\frac{1}{3}} - \sqrt{2401} = ?$

- (1) 260 (2) 174 (3) 182 (4) 149 (5) 138

490. $(18)^{8.4} \times (324)^{4.2} \times (16)^4 \times (256)^{6.4} = ?$

- (1) $(288)^{16.8}$ (2) $(134)^{15.4}$ (3) $(324)^{14.2}$ (4) $(256)^{16.4}$ (5) $(16)^{18.2}$

Directions (Q. 491-495): What approximate value should come in place of the question mark (?) in the following questions? (Note you are not expected to calculate the exact values.)

491. $20.05 \times 13.6 + 40.2 \times 30.1 + 5.5 \times 2.2 - 10.5 \times 2 + 1111.001 - 201.002 = ?$

- (1) 2400 (2) 2516 (3) 2898 (4) 2385 (5) 3020

492. $13369.571 - 97215.372 + 679871.5 + 34.21 - 57918.7 - 322.67 = ?$

- (1) 590810 (2) 537810 (3) 531620 (4) 637810 (5) 589210

493. $\sqrt{5041} \times 35.5 + \sqrt{290} \times 3.7 - \sqrt{4489} \times \sqrt{81} \times 0.001 + 37.0571 = ?$

- (1) 2712 (2) 2620 (3) 3250 (4) 3780 (5) 3910

494. $2222 \times 11.05 + 101 \times 201 + 35.079 \times 88.571 + 3434.62 - 13.82 = ?$

- (1) 58531 (2) 36461 (3) 35261 (4) 40889 (5) 51261

495. $72\% \text{ of } 847.1 + \frac{3}{41} \text{ of } 929.10 - 33\% \text{ of } 351.012 + \frac{13}{37} \text{ of } 659.120 = ?$

- (1) 680 (2) 710 (3) 830 (4) 795 (5) 895

Directions (Q. 496-500): What should come in place of question mark(?) in the following questions?

496. $12.8\% \text{ of } 8800 - 16.4\% \text{ of } 5550 = 20\% \text{ of } ?$

- (1) 964 (2) 996 (3) 1004 (4) 1081 (5) 1124

497. $\sqrt{7569} - \sqrt{1444} = 872.2 \div ?$

- (1) 16.4 (2) 17.8 (3) 18.6 (4) 19.2 (5) 20.8

498. $(2197)^{\frac{2}{3}} \div (28561)^{\frac{3}{4}} \times ? = (\sqrt{13})^5$

- (1) $(13)^2$ (2) $(\sqrt{13})^{-2}$ (3) $(13)^7$ (4) $(\sqrt{13})^7$ (5) None of these

499. $\frac{7}{23} \text{ of } \frac{17}{33} \text{ of } \frac{27}{43} \text{ of } ? = 12.5\% \text{ of } 68544$

- (1) 72832 (2) 76084 (3) 87032 (4) 89648 (5) 90204

500. $\frac{?}{\sqrt{384}} = \frac{\sqrt{864}}{?}$

- (1) 16 (2) 24 (3) 32 (4) 36 (5) 48

Directions (Q. 501-505): What approximate value should come in place of question mark(?) in the following questions? (Note: You are not expected to calculate the exact value.)

501. $\sqrt[3]{110590} = ?$

- (1) 44 (2) 46 (3) 48 (4) 50 (5) 52

33

502. $(3841.96 \div 33.99) \times 3.003 = ?$
 (1) 310 (2) 340 (3) 375 (4) 410 (5) 440
503. $(\sqrt[3]{13820} \times \sqrt{21600}) \div 55.959 = ?$
 (1) 63 (2) 104 (3) 141 (4) 174 (5) 73
504. $648 \times 18 \times ? = 104980$
 (1) 48 (2) 36 (3) 27 (4) 18 (5) 9
505. $(17.31)^3 = ?$
 (1) 5040 (2) 5180 (3) 5260 (4) 5320 (5) 5450

Directions (Q. 506-510): What will come in place of question mark (?) in the following questions?

506. $38.5 \div 5.25 \times 12 - 4 = ?$
 (1) 84 (2) 48 (3) 40 (4) 75 (5) 74
507. $(?)^2 + (79)^2 = (172)^2 - (88)^2 - 8203$
 (1) 96 (2) 89 (3) 83 (4) 81 (5) 86
508. $[(222)^2 \div 48 \times 16] \div 24 = ?$
 (1) 654.25 (2) 624 (3) 684.5 (4) 678.75 (5) 784.5
509. $(52\% \text{ of } 3543) - (38\% \text{ of } 2759) = ?$
 (1) 653.36 (2) 993.24 (3) 821.64 (4) 793.94 (5) 893.94
510. $416 \times ? \times 8 = 59904$
 (1) 17 (2) 12 (3) 21 (4) 15 (5) 18

Directions (Q. 511-515): What approximate value should come in place of the question mark (?) in the following questions? (Note you are not expected to calculate the exact values.)

511. $(1513)^2 = ? \times 3294$
 (1) 688 (2) 674 (3) 700 (4) 695 (5) None of these
512. $(8531 + 6307 + 1093) \div (501 + 724 + 396) = ?$
 (1) 19 (2) 10 (3) 16 (4) 13 (5) None of these
513. $(682\% \text{ of } 782) \div 856 = ?$
 (1) 4 (2) 10 (3) 12 (4) 8 (5) 6
514. $\sqrt{197} + \sqrt{365} = ?$
 (1) 25 (2) 33 (3) 44 (4) 22 (5) 11
515. $(54 \times 154) \div (34 \times 134) = ?$
 (1) 13 (2) 3.00 (3) 4 (4) 1.5 (5) 2.00

Directions (Q. 516-520): What will come in place of question mark (?) in the following questions?

516. $5016 \times 1001 - 333 \times 77 + 22 = ? \times 11$
 (1) 435560 (2) 454127 (3) 527240 (4) 366530 (5) 511990
517. $(13\sqrt{6} + 17\sqrt{6}) \times (12\sqrt{6} - 9\sqrt{6}) - (11)^2 + (4)^2 = ?$
 (1) 565 (2) 345 (3) 435 (4) 635 (5) 490
518. $(7777 \div 70) + (1250 \div 25) + (9792 \div 27) + 2531 - 741 = ?$
 (1) 1779.6 (2) 1897.1 (3) 1790.1 (4) 1987.1 (5) 1997.1
519. $\sqrt{30276} \times \sqrt{625} - (97)^2 + 4410 = (?) - (49)^2$
 (1) 1670 (2) 1570 (3) 2270 (4) 1850 (5) 1970
520. $37\frac{18}{23} + 174\frac{19}{23} - 87\frac{15}{23} = ?$
 (1) $104\frac{22}{23}$ (2) $142\frac{20}{23}$ (3) $109\frac{18}{23}$ (4) $124\frac{13}{23}$ (5) $124\frac{22}{23}$

Directions (Q. 521-525): What approximate value should come in place of question mark (?) in the following questions? (Note: You are not expected to calculate the exact value.)

521. $79352 \div 123 \times 35 + \sqrt{78} = ?$
(1) 23187 (2) 24263 (3) 27772 (4) 22587 (5) 26198
522. $(70.4969)^{\frac{1}{3}} \times \sqrt{4489} + (3502 \div 17) - \sqrt{2704} = ?$
(1) 750 (2) 720 (3) 650 (4) 841 (5) 690
523. $\frac{13}{17}$ of 5352.541 - $\frac{7}{13}$ of 970.524 + $\frac{12}{23}$ of 11570.97 = ?
(1) 9951 (2) 9804 (3) 9608 (4) 9285 (5) 6373
524. 72% of 79540 - 69% of 5423 + 29% of 720 = ?
(1) 51714 (2) 52465 (3) 57487 (4) 59455 (5) 53735
525. $4297.52 + 1352.71 \times 464.52 + 7389 \div 221.5 = ?$
(1) 617480 (2) 656976 (3) 633476 (4) 617880 (5) 624576



SHORT ANSWER

1. (5)	2. (3)	3. (2)	4. (1)	5. (5)	6. (3)	7. (2)	8. (?)
9. (1)	10. (4)	11. (2)	12. (5)	13. (3)	14. (1)	15. (5)	16. (3)
17. (4)	18. (2)	19. (1)	20. (2)	21. (3)	22. (3)	23. (5)	24. (1)
25. (2)	26. (1)	27. (3)	28. (4)	29. (4)	30. (5)	31. (3)	32. (2)
33. (1)	34. (3)	35. (5)	36. (3)	37. (1)	38. (4)	39. (2)	40. (3)
41. (3)	42. (1)	43. (4)	44. (2)	45. (1)	46. (4)	47. (2)	48. (3)
49. (1)	50. (3)	51. (2)	52. (3)	53. (3)	54. (4)	55. (3)	56. (4)
57. (3)	58. (1)	59. (3)	60. (5)	61. (2)	62. (4)	63. (5)	64. (1)
65. (3)	66. (2)	67. (1)	68. (3)	69. (4)	70. (2)	71. (2)	72. (4)
73. (1)	74. (5)	75. (1)	76. (3)	77. (1)	78. (3)	79. (2)	80. (5)
81. (1)	82. (3)	83. (2)	84. (2)	85. (4)	86. (2)	87. (1)	88. (3)
89. (3)	90. (4)	91. (2)	92. (3)	93. (1)	94. (2)	95. (2)	96. (4)
97. (4)	98. (2)	99. (2)	100. (5)	101. (1)	102. (2)	103. (3)	104. (3)
105. (3)	106. (3)	107. (5)	108. (1)	109. (4)	110. (2)	111. (3)	112. (4)
113. (4)	114. (2)	115. (3)	116. (1)	117. (5)	118. (4)	119. (1)	120. (1)
121. (4)	122. (3)	123. (4)	124. (2)	125. (3)	126. (2)	127. (3)	128. (4)
129. (5)	130. (3)	131. (2)	132. (1)	133. (2)	134. (3)	135. (4)	136. (3)
137. (2)	138. (1)	139. (2)	140. (2)	141. (2)	142. (1)	143. (5)	144. (4)
145. (3)	146. (2)	147. (4)	148. (5)	149. (2)	150. (3)	151. (2)	152. (4)
153. (4)	154. (2)	155. (3)	156. (1)	157. (5)	158. (2)	159. (5)	160. (2)
161. (2)	162. (1)	163. (3)	164. (2)	165. (3)	166. (4)	167. (3)	168. (1)
169. (1)	170. (1)	171. (2)	172. (2)	173. (3)	174. (5)	175. (5)	176. (4)
177. (5)	178. (4)	179. (4)	180. (3)	181. (3)	182. (2)	183. (4)	184. (2)
185. (3)	186. (3)	187. (2)	188. (3)	189. (3)	190. (4)	191. (3)	192. (4)
193. (1)	194. (1)	195. (2)	196. (3)	197. (2)	198. (2)	199. (3)	200. (5)
201. (4)	202. (3)	203. (1)	204. (1)	205. (1)	206. (5)	207. (2)	208. (3)
209. (5)	210. (3)	211. (4)	212. (1)	213. (2)	214. (5)	215. (2)	216. (3)
217. (2)	218. (3)	219. (5)	220. (1)	221. (3)	222. (5)	223. (2)	224. (4)
225. (1)	226. (5)	227. (3)	228. (1)	229. (5)	230. (2)	231. (5)	232. (3)
233. (3)	234. (5)	235. (2)	236. (5)	237. (3)	238. (2)	239. (5)	240. (4)
241. (2)	242. (3)	243. (1)	244. (5)	245. (3)	246. (2)	247. (3)	248. (1)
249. (2)	250. (4)	251. (5)	252. (2)	253. (4)	254. (3)	255. (2)	256. (2)
257. (5)	258. (2)	259. (4)	260. (3)	261. (2)	262. (4)	263. (3)	264. (2)
265. (2)	266. (4)	267. (3)	268. (2)	269. (3)	270. (3)	271. (5)	272. (1)
273. (1)	274. (4)	275. (3)	276. (4)	277. (2)	278. (2)	279. (5)	280. (3)
281. (3)	282. (5)	283. (1)	284. (2)	285. (4)	286. (3)	287. (2)	288. (1)
289. (3)	290. (4)	291. (3)	292. (4)	293. (2)	294. (2)	295. (1)	296. (2)
297. (3)	298. (4)	299. (2)	300. (3)	301. (3)	302. (5)	303. (3)	304. (1)
305. (2)	306. (2)	307. (3)	308. (3)	309. (1)	310. (3)	311. (3)	312. (1)
313. (4)	314. (2)	315. (5)	316. (5)	317. (5)	318. (2)	319. (5)	320. (5)
321. (3)	322. (2)	323. (2)	324. (5)	325. (4)	326. (3)	327. (2)	328. (4)
329. (1)	330. (3)	331. (2)	332. (2)	333. (4)	334. (3)	335. (2)	336. (4)
337. (2)	338. (3)	339. (5)	340. (1)	341. (3)	342. (2)	343. (2)	344. (4)
345. (3)	346. (2)	347. (1)	348. (2)	349. (4)	350. (3)	351. (3)	352. (5)
353. (4)	354. (3)	355. (2)	356. (1)	357. (3)	358. (2)	359. (3)	360. (2)
361. (2)	362. (3)	363. (1)	364. (1)	365. (4)	366. (1)	367. (5)	368. (3)
369. (2)	370. (1)	371. (2)	372. (3)	373. (4)	374. (5)	375. (1)	376. (2)
377. (4)	378. (2)	379. (4)	380. (4)	381. (4)	382. (3)	383. (3)	384. (3)
385. (4)	386. (3)	387. (4)	388. (1)	389. (4)	390. (2)	391. (4)	392. (4)
393. (3)	394. (4)	395. (3)	396. (4)	397. (4)	398. (5)	399. (3)	400. (4)
401. (2)	402. (4)	403. (5)	404. (3)	405. (2)	406. (3)	407. (3)	408. (1)
409. (5)	410. (4)	411. (4)	412. (3)	413. (1)	414. (4)	415. (3)	416. (5)

36

417. (4)	418. (2)	419. (3)	420. (5)	421. (2)	422. (5)	423. (2)	424. (3)
425. (4)	426. (1)	427. (3)	428. (2)	429. (3)	430. (5)	431. (2)	432. (3)
433. (4)	434. (2)	435. (2)	436. (1)	437. (3)	438. (2)	439. (5)	440. (3)
441. (2)	442. (2)	443. (4)	444. (3)	445. (5)	446. (2)	447. (2)	448. (4)
449. (3)	450. (5)	451. (3)	452. (2)	453. (1)	454. (4)	455. (5)	456. (2)
457. (3)	458. (1)	459. (5)	460. (4)	461. (4)	462. (5)	463. (2)	464. (1)
465. (1)	466. (2)	467. (3)	468. (1)	469. (1)	470. (2)	471. (3)	472. (2)
473. (5)	474. (3)	475. (1)	476. (2)	477. (4)	478. (3)	479. (4)	480. (1)
481. (2)	482. (1)	483. (3)	485. (2)	486. (4)	487. (3)	488. (5)	489. (2)
490. (1)	491. (4)	492. (2)	493. (2)	494. (5)	495. (4)	496. (4)	497. (2)
498. (4)	499. (3)	500. (2)	501. (5)	502. (2)	503. (1)	504. (5)	505. (2)
506. (1)	507. (5)	508. (3)	509. (4)	510. (5)	511. (4)	512. (2)	513. (5)
514. (2)	515. (5)	516. (2)	517. (3)	518. (4)	519. (4)	520. (5)	521. (4)
522. (1)	523. (3)	524. (5)	525. (3)				



DETAIL - EXPLANATIONS

$$1. \quad 5; \quad ? = \frac{135 \times 342}{100} - \frac{342 \times 13.5}{100}$$

$$= 461.7 - 46.17 = 415.53$$

$$2. \quad 3; \quad \sqrt{13.3225} = 3.65$$

$$3. \quad 2; \quad \frac{? \times 12800}{100} = 1008 + 2448 = 3456$$

$$\therefore ? = \frac{3456}{128} = 27$$

$$4. \quad 1; \quad (?)^2 = 1859 \times 275 = 169 \times 11 \times 25 \times 11$$

$$(?)^2 = 25 \times 121 \times 169$$

$$\therefore ? = 5 \times 11 \times 13 = 715$$

$$5. \quad 5; \quad ? = \frac{36 \times 17 \times 18 \times 25215}{123 \times 41 \times 100} = 550.8$$

$$6. \quad 3; \quad ? = \frac{185 \times 1360}{100} + \frac{18.5 \times 1320}{100}$$

$$= 2516 + 244.2 = 2760.2 - 2760$$

$$7. \quad 2; \quad ? = \frac{\sqrt{5475}}{5} = \frac{74}{5} = 14.8 \approx 15$$

$$= 1593 + 1334.5 = 2927.5 \approx 2930$$

$$9. \quad 1; \quad ? \approx 43 \times 28 + 12 \times 35$$

$$= 1204 + 420 = 1624 \approx 1625$$

$$10. \quad 4; \quad ? = \{(8.66)^2 \times 13.98\} \div \sqrt{50}$$

$$= \{74.99 \times 13.98\} \div 7.07$$

$$\therefore ? = \frac{75 \times 14}{7} = 150$$

$$11. \quad 2; \quad ? = \frac{13 \times 15 \times 0.45 \times 7168}{8 \times 32 \times 100} = 24.57$$

$$12. \quad 5; \quad ? = (1036 \times 0.75 + 1128 \times 0.25) \times 3.5$$

$$= (777 + 282) \times 3.5 = 1059 \times 3.5 = 3706.5$$

$$13. \quad 3; \quad \sqrt{?} = \frac{78 \times 148}{481} = 24$$

$$\therefore ? = (24)^2 = 576$$

$$14. \quad 1; \quad ? = \left(\frac{5546}{47} + \frac{4984}{4} \right) \div 11$$

$$? = (118 + 1246) \div 11 = \frac{1364}{11} = 124$$

$$15. \quad 5; \quad ? = \frac{32}{5} \times \frac{45}{8} \times \frac{165}{14} \times \frac{7}{144}$$

$$= \frac{135}{2} = 67.5$$

$$16. \quad 3; \quad ? = \frac{340 \times 800}{100} + \frac{78 \times 1100}{100}$$

$$= 2720 + 858 = 3578 \approx 3580$$

$$17. \quad 4; \quad ? = \sqrt{2300} \times \sqrt{240} \approx 48 \times 15.5$$

$$= 744 = 745$$

$$18. \quad 2; \quad ? \approx 14 \times 27.5 - 8.75 \times 16$$

$$= 385 - 140 = 245 \approx 250$$

$$19. \quad 1; \quad ? \approx 119 \times 15 + 21 \times 14$$

$$= 1785 + 294 = 2079 \approx 2080$$

$$20. \quad 2; \quad ? = \frac{17.4 \times 1550}{100} - 21 \times 9$$

$$= 269.7 - 189 = 80.7 \approx 80$$

$$21. \quad 3; \quad 650 \times \frac{24}{23} \times \frac{92}{100} \times \frac{1}{6} = 85 + ?$$

$$\text{or, } ? = 104 - 85 = 19$$

$$22. \quad 3; \quad 92 \times 576 \div (2\sqrt{1296})$$

$$= (?)^3 + \sqrt{49}$$

$$\text{or, } \frac{92 \times 576}{72} = ?^3 + 7 \quad \text{or, } 736 - 7 = ?^3$$

$$? = \sqrt[3]{729} = 9$$

$$23. \quad 5; \quad (3+2-1-1) + \left(\frac{1}{4} + \frac{1}{2} - \frac{5}{6} - \frac{5}{12} \right)$$

$$= \frac{(?^2)}{10} \Rightarrow 3 + \left(\frac{3+6-10-5}{12} \right) = \frac{?^2}{10}$$

$$\Rightarrow 3 + \frac{6}{12} = \frac{?^2}{10} \Rightarrow 3 - \frac{1}{2} = \frac{?^2}{10}$$

$$\text{or } ?^2 = \frac{5}{2} \times 10 = 25 \quad ? = 5$$

$$24. \quad 1$$

$$25. \quad 2$$

$$26. \quad 1$$

$$27. \quad 3; \quad 68\% \text{ of } 1400 - 14\% \text{ of } 1300$$

$$= 952 - 182 = 770$$

$$28. \quad 4; \quad 5467 - 3245 + 1123 - 2310 = ?$$

$$? = 1035$$

$$29. \quad 4$$

$$30. \quad 5$$

$$31. \quad 3; \quad ? = 2912 + 1260 - 793 = 3379$$

$$32. \quad 2; \quad \frac{? \times 999}{100} = 166.5 \times 0.9$$

$$\therefore ? = \frac{14985}{999} = 15$$

$$33. \quad 1; \quad ? = \{(157.8 + 117.2) (157.8 - 117.2)\} \times 0.008$$

$$? = (275 \times 40.6) \times 0.008 = 11165 \times 0.008$$

$$= 89.32$$

$$34. \quad 3; \quad ? = \frac{82992}{76 \times 42} = 26$$

38

$$35. \quad 5; \quad ? = \left[\left\{ \frac{486 \times 486}{27 \times 27} \right\} \times 15 \right] \div 12$$

$$? = \frac{324 \times 15}{12} = 405$$

$$36. \quad 3; \quad ? = \left(\frac{2875 \times 124}{100} \right) \div 5 = \frac{3565}{5}$$

$$= 713 = 710$$

$$37. \quad 1; \quad ? \approx \frac{197}{8} + \sqrt{24000} \approx 25 + 155 = 180$$

$$38. \quad 4; \quad ? = \frac{135 \times 128}{100} + \frac{115 \times 24}{100}$$

$$= 172.8 + 27.6 = 200.4 = 200$$

$$39. \quad 2; \quad ? = \frac{(83.98)^2}{13.49} = \frac{(84)^2}{13.5} = 522.66 \approx 525$$

$$40. \quad 3; \quad ? = \left(\frac{2900}{35} - 13 \right) \times 6$$

$$= (83 - 13) \times 6 = 70 \times 6 = 420$$

$$41. \quad 3; \quad (13^3)^{-2} \div (13^4)^{-3}$$

$$= (13)^{-6} \div (13)^{-12}$$

$$= (13)^{-6+12} = (13)^6 = 169 \times (13)^4$$

$$\therefore ? = 4$$

$$42. \quad 1; \quad ? = \frac{7 \times 5 \times 48 \times 28980}{12 \times 21 \times 23 \times 100} = 84$$

$$43. \quad 4; \quad ? = \left(\frac{14641}{11} \right) \times 3.5 = 1331 \times 3.5 = 4658.5$$

$$44. \quad 2; \quad (28)^{4.9} \times (7)^{0.1} \times (4)^{0.1} \div (7^{-2.5} \times 4^{-2.5})$$

$$(28)^{4.9} \times (28)^{0.1} \div (28)^{-2.5} = (28)^{4.5+0.1+2.5}$$

$$\therefore ? = 7.5$$

$$45. \quad 1; \quad 6 \times ? = \left(\frac{28.5 \times 144}{100} \right) \times 25$$

$$= 41.04 \times 25 = 1026$$

$$\therefore ? = \frac{1026}{6} = 171$$

$$46. \quad 4; \quad ? \approx \frac{145 \times 1340}{100} + 42 \times 18.5 = 1943 + 777$$

$$= 2720$$

$$47. \quad 2; \quad ? \approx \frac{3740}{21} \times 4.5 = 178 \times 4.5 = 801 \approx 800$$

$$48. \quad 3; \quad ? \approx \left(\frac{2260}{39} \times \sqrt{2020} \right) \times 1.25 \approx (57.948 \times 44.94) \times$$

$$1.25 = (58 \times 45) \times 1.25 = 3262.5 \approx 3260$$

$$49. \quad 1; \quad ? \approx \frac{185 \times 750}{100} - \frac{115 \times 840}{100}$$

$$= 1387.5 - 966 = 421.5 \approx 420$$

$$50. \quad 3; \quad ? \approx 156 - 12 \times 3 = 156 - 36 = 120$$

$$51. \quad 2; \quad (8)^{7.2} \div (8^3)^{1.6} \times (8^4)^{-1.2} \div (8^5)^{-1}$$

$$= (8)^{7.2} \div 8^{4.8} \times 8^{-4.8} \div 8^{-5}$$

$$= (8)^{7.2-4.8-4.8+5} = (8)^{2.6} \quad \therefore ? = 2.6$$

$$52. \quad 3; \quad \frac{3000 \times ?}{100} = 45.5 \times 9.6 + 13.5 \times 3.2$$

$$= 436.8 + 43.2 = 480$$

$$\therefore ? = \frac{480 \times 100}{3000} = 16$$

$$53. \quad 3; \quad ? = \{(24^3)^{2/3} \div 16\} \times 7.5$$

$$= \{(24)^2 \div 16\} \times 7.5 = 36 \times 7.5 = 270$$

$$54. \quad 4; \quad \sqrt[4]{?} = \{6^{3.6} \div (6^2)^{-4.2}\}^{1/4}$$

$$= \{6^{3.6} \div 6^{-8.4}\}^{1/4} = \{6^{3.6+8.4}\}^{1/4}$$

$$\therefore \sqrt[4]{?} = \{6^{12}\}^{1/4} = 6^3 = 216$$

$$\text{or } ? = (216)^2 = 46656$$

$$55. \quad 3; \quad ? = \sqrt[3]{12167} \times \sqrt{24025}$$

$$= 23 \times 155 = 3565$$

$$56. \quad 4; \quad ? \approx (140 \times 24) - (28 \times 7.5)$$

$$= 3360 - 210 = 3150$$

$$57. \quad 3; \quad ? = \left(\frac{3248 \times 55}{100} \right) \div 28 = \frac{3248 \times 55}{2800}$$

$$= 63.8 \approx 64$$

$$58. \quad 1; \quad \therefore (103)^2 = 10609$$

$$\therefore \sqrt{10600} = 103$$

$$\therefore (27)^3 = 19683$$

$$\therefore \sqrt[3]{19680} = 27$$

$$\therefore ? \approx 103 \times 27 = 2781 \approx 2780$$

$$59. \quad 3; \quad \therefore (58)^2 = 3364 \quad \therefore \sqrt{3360} \approx 58$$

$$\therefore ? = \frac{6844}{58} + \frac{256}{8} = 118 + 32 = 150$$

$$60. \quad 5; \quad ? = \left(\frac{248 \times 17855}{100} \right) \div 24 = \frac{44280.4}{24} = 1845$$

$$61. \quad 2 \quad ? = \frac{1}{2} \left[\left(\frac{4950}{6} \right) + (112 \times 1.75) \right]$$

$$= \frac{1}{2} (825 + 196) = \frac{1021}{2} = 510.5$$

$$62. \quad 4$$

$$63. \quad 5; \quad \frac{? \times 1068.5}{100} = 12132 - 3584$$

$$\therefore ? = \frac{8548 \times 100}{100} = 800$$

39

64. 1; $75 \times ? = 64 + 116 = 180$

$$\therefore ? = \frac{180}{75} = 2.4$$

65. 3; $\frac{30 \times ?}{100} = \frac{157 \times 360}{100} + \frac{66 \times 275}{100}$

or, $30 \times ? = 56520 + 18150 = 74670$

$$\therefore ? = \frac{74670}{30} = 2789$$

66. 2; $\sqrt{?} = \frac{112}{48 \div 12} = \frac{112}{4} = 28$

$$\therefore ? = (28)^2 = 784$$

67. 1; $? = \sqrt{?} = \frac{4140}{36} + 55 \times (9)^2$

$$= 115 + 4455 = 4570$$

68. 3; $\sqrt{?} \approx \frac{32.5 \times 1800}{100} + \frac{23 \times 1500}{100}$

$$= 585 + 345 = 930$$

69. 4; $\therefore (22)^3 = 10648$

70. 2; $(10)^{7.3} \div (10^2)^{4.15} \times (10^3)^2 + 99999$

$$= (10)^{7.3} \div (10)^{8.3} \times (10)^6 + 99999$$

$$= (10)^{7.3 - 8.3 + 6} + 99999$$

$$= (10)^5 + 99999 \approx (10)^5 + (10)^5$$

$$= 2 \times 10^5$$

71. 2; $(16)^{1/2} + (36)^2 = ?^2 + 459$

or, $?^2 = 4 + 1296 - 459 = 841$

or, $? = \pm 29$

72. 4; $4.4 \times \frac{5}{16} \times \frac{30}{100} \times 216$

$$= 4.4 \times \frac{5}{16} \times 64.8 = 89.1$$

73. 1; $(0.729)^3 \div (0.81)^5 \times (0.9)^5 = (0.9)^{?+3}$

or, $[(0.9)^3]^3 \div [(0.9)^2]^5 \times (0.9)^5 = (0.9)^{?+3}$

or, $(0.9)^9 \div (0.9)^{10} \times (0.9)^5 = (0.9)^{?+3}$

or, $(0.9)^{9-10+5} = (0.9)^{?+3}$

or, $(0.9)^4 = (0.9)^{?+3}$

$\therefore ? = 1$

74. 5; $\left(\sqrt{\frac{?}{100}} \text{ of } 42 \times 5 \right) = 37.8$

or, $\left(\frac{\sqrt{?}}{10} \text{ of } 42 \times 5 \right) = 37.8$

or, $4.2\sqrt{?} \times 5 = 37.8$

or, $21\sqrt{?} = 37.8$

or, $\sqrt{?} = 1.8$

or, $? = 3.24$

75. 1; $(729 \times 6 \div 9) + 343 + 71 + 431 = ?^3$

or, $486 + 343 + 71 + 431 = ?^3$

or, $?^3 = 1331 = (11)^3$

$\therefore ? = 11$

76. 3; $\sqrt{?} = \frac{321 \times 9}{0.8 \times 11.25} = 321$

$\therefore ? = (321)^2$

$= 103041$

77. 1; $? = 2618 + 28.5 - 1837.5$

$= 809$

78. 3; $\frac{12.5 \times ?}{100} = \frac{44 \times 475}{100} + \frac{72 \times 55}{100}$

$= 209 + 39.6 = 248.6$

$$\therefore ? = \frac{24860}{12.5} = 1988.8$$

79. 2; $(7)^{\frac{1}{6}} \div (7)^{\frac{-3}{2}} \times (7)^{\frac{2}{3}} = (7)^{\frac{1}{6} + \frac{3}{2} + \frac{2}{3}} = (7)^{\frac{7}{3}}$

$$= (\sqrt[3]{7})^7$$

$\therefore ? = 7$

80. 5; $? = \frac{69}{8} \times \frac{72}{23} + \frac{36}{5} \times \frac{38}{9}$

$$= 27 + \frac{152}{5} = \frac{135 + 152}{5} = \frac{287}{5} = 57\frac{2}{5}$$

81. 1; $? = \sqrt{172 + 152} = \sqrt{324} = 18$

82. 3; $\frac{1320 \times ?}{100} = 4515 - \frac{48.5 \times 7840}{100}$

$= 4515 - 3800 = 715$

$$\therefore ? = \frac{71500}{1320} = 54.16 \approx 54$$

83. 2; $? \approx 118.25 \times 290 + 43.5 \times 170$

$= 34292.5 + 7395$

$= 41687.5 \approx 41700$

84. 2; $? \approx \sqrt[3]{226980} \approx 61$

85. 4; $? \approx \frac{8847256}{4446}$

$= 1989.936 \approx 1990$

86. 2; $?^2 = 252 \times 63$

$= 9 \times 7 \times 4 \times 7 \times 9$

$= (2 \times 7 \times 9)^2$

$\therefore ? = 2 \times 7 \times 9 = 126$

87. 1; $= 18 + 17 = 35$

$\therefore ? = (35)^2 = 1225$

88. 3; $\sqrt{?} = 82 + 15 - 16 = 81$

$\therefore ? = (81)^2 = 6561$

89. 3; $(27)^{3/5} \times (3)^4 \div (3)^{-1/5}$

40

$$= (3)^{\frac{9}{5} + 4 + \frac{1}{5}} = (3)^6 = (9)^3$$

$$\therefore ? = 3$$

$$90. \quad 4; \quad \frac{20 \times ?}{100} = \frac{7.85 \times 1240}{100} + \frac{3.6 \times 850}{100}$$

$$= 97.34 + 30.6 = 127.94$$

$$\therefore ? = \frac{12794}{20} = 639.7$$

$$91. \quad 2; \quad ? \approx \frac{840}{15} \times 18 = 1008 \approx 1000$$

$$92. \quad 3; \quad ? = 31 \times 42 = 1302 \approx 1300$$

$$93. \quad 1; \quad ? \approx \left\{ \frac{55.5}{3} \times 12 \right\} \times 5 = 185 \times 12 \times 5 = 11100$$

$$94. \quad 2; \quad ? \approx \frac{1870}{85} + 41 \times 17$$

$$= 22 + 697$$

$$= 719 \approx 720$$

$$95. \quad 2; \quad ? \approx \frac{80 \times 875}{100} + \frac{18 \times 255}{100}$$

$$= 700 + 45.9 = 750$$

$$96. \quad 4; \quad ? = \frac{47376}{47 \times 56} = 18$$

$$97. \quad 4; \quad ? = 806.01$$

$$98. \quad 2; \quad \frac{? \times 141}{100} = 24.8 - 2.28 = 22.56$$

$$\therefore ? = \frac{22.56 \times 100}{141} = 16$$

$$99. \quad 2; \quad \left[\frac{7569}{29} \times 48 \right] \div 18 = \frac{261 \times 48}{18} = 696$$

$$= 12 \times 58$$

$$\therefore ? = 58$$

$$100. \quad 5; \quad (0.2)^{3/2} \times (0.2)^3 \div (0.2)^{-1/2}$$

$$= (0.2)^{\frac{3}{2} + 3 + \frac{1}{2}} = (0.2)^5 \quad \therefore ? = 5$$

$$101. \quad 1; \quad ? \approx 66 + \frac{1204}{7} \times 15 = 66 + 2580$$

$$= 2646 \approx 2650$$

$$102. \quad 2; \quad ? = \frac{217 \times 8458}{100} = 18353.80 \approx 18350$$

$$103. \quad 3; \quad ? \approx \frac{64400}{55} = 1170.9 \approx 1170$$

$$104. \quad 3; \quad ? = 45 + 14 \times 15 + 148 \div 4$$

$$= 45 + 210 + 37 = 292 \approx 290$$

$$105. \quad 3; \quad ? = \frac{148 \times 1750}{100} - 15 \times 16$$

$$= 2590 - 240 = 2350$$

$$106. \quad 3; \quad ? = \frac{34.2 \times 17.4 \times 1.5}{2} = \frac{892.62}{2} = 446.31$$

$$107. \quad 5; \quad (6^5)^{1.3} \times (6^2)^{1.25} \div (6^3)^2 \div (6^4)^{-1}$$

$$= (6)^{6.5} \times (6)^{2.5} \div (6)^6 \div (6)^{-4}$$

$$= (6)^{6.5+2.5-6+4} = (6)^7$$

$$\therefore ? = 7$$

$$108. \quad 1; \quad \sqrt{1.8225} \times \sqrt{70.56} - 1.35 \times 8.4 = 11.34$$

$$109. \quad 4; \quad ? = \frac{30 \times 5 \times 3 \times 16 \times 10920}{7 \times 13 \times 15 \times 100} = 576$$

$$110. \quad 2; \quad ? = \frac{26}{7} \times \frac{35}{3} \times \frac{42}{173} \times \frac{5}{13} \times \frac{2595}{10} = 1050$$

$$111. \quad 3; \quad ? \approx 48 \times 5 = 240$$

$$112. \quad 4; \quad ? = \frac{137 \times 1285}{100} = 1760.45 \approx 1760$$

$$113. \quad 4; \quad \therefore (48)^2 = 2304 \quad \therefore \sqrt{2300} \approx 48$$

$$114. \quad 2; \quad ? \approx \frac{3 \times 800}{100} + \frac{6 \times 1100}{100} = 24 + 66 = 90$$

$$115. \quad 3; \quad ? \approx 13 \times 103 + 198 \times 12$$

$$= 1339 + 2376 = 3715 \approx 3700$$

$$116. \quad 1; \quad ? = \frac{(23.65 + 48.35)(23.65 - 48.35)}{0.9}$$

$$\text{or, } ? = \frac{72 \times -24.7}{0.9} = -1976$$

$$117. \quad 5; \quad \frac{?}{100} \times 5525 = \frac{76 \times 960}{100} - \frac{45 \times 148}{100}$$

$$= 729.6 - 66.6 = 663$$

$$\therefore ? = \frac{663 \times 100}{5525} = 12$$

$$118. \quad 4; \quad (4^6)^{3.6} \div (4^4)^{4.3} \times (4^3)^5 \div (4^2)^{-4}$$

$$= (4)^{22.2} \div (4)^{17.2} \times (4)^{15} \div (4)^{-8}$$

$$= (4)^{22.2 - 17.2 + 15 + 8} = (4)^{28}$$

$$119. \quad 1$$

$$120. \quad 1$$

$$121. \quad 4; \quad ? \approx (85 \div 17) \times 14 = 5 \times 14 = 70$$

$$122. \quad 3; \quad ? \approx (13.8 \times 45) + 170$$

$$= 620 + 170 = 790$$

$$123. \quad 4; \quad ? = \sqrt[3]{54870} \approx 38$$

$$124. \quad 2; \quad ? = \frac{1.35 \times 5720}{100} + \frac{12.8 \times 45}{100}$$

$$= 77.22 + 5.76 = 82.98 \approx 83$$

$$125. \quad 3; \quad ? \approx \frac{1680}{13} + \sqrt{2020}$$

$$? \approx 130 + 45 = 175$$

126. 2

$$127. 3; ? = 984 + 1650 - 310 \\ = 2634 - 310 = 2324$$

$$128. 4; \left[\sqrt[3]{\sqrt{2}(12)^4} \right]^{3/2} = \left[\sqrt[3]{(12)^2} \right]^{3/2} = \left[(12)^2 \right]^{3/2 \times \frac{1}{3}} \\ = 12$$

$$129. 5; \frac{?}{100} \times 664 = 332 \times 0.8 = 265.6$$

$$\therefore ? = \frac{265.6 \times 100}{664} = 40$$

$$130. 3; (?)^2 = \frac{18.5 \times 7200}{100} + \frac{27.8 \times 1800}{100} + 16.6 \\ = 1332 + 500.4 + 16.6 = 1849 = (43)^2$$

$$131. 2; ? = \frac{172 \times 1155}{100} + \frac{2.75 \times 275}{100} \\ = 1986.6 + 7.5625 \\ = 1994.1625 \approx 1994$$

$$132. 1; ? \approx 7130 \times 20 + 13 \times 1920 \\ = 142600 + 24960 = 167560$$

$$133. 2; ? \approx 18940 + 45 + 2.4 \times 75 \\ \approx 420 + 180 = 600$$

$$134. 3; \therefore (38)^3 = 54872 \\ \therefore \sqrt{54870} \approx 38$$

135. 4; $\sqrt{2300} \approx 48$

$$\therefore ? = 48 \times \frac{11}{6} = 88$$

$$136. 3; 0.25 \times ? = 693 + 1060 = 1753 \\ \therefore ? = \frac{1753}{0.25} = 7012$$

$$137. 2; ? = \frac{4590 \times 7 \times 8 \times 4}{17 \times 3 \times 5} = 4032$$

$$138. 1; ? = \left[\frac{(342)^3}{(57)^2} \right] \div 216 = \frac{36 \times 342}{216} = 57$$

$$139. 2; 0.06 \times ? = \frac{26.8 \times 480}{100} - \frac{13.4 \times 180}{100} \\ = 128.64 - 24.12 \\ \therefore ? = \frac{104.52}{0.06} = 1742$$

140. 2; $? = (3.673 + 7.327) = 11$

$$\therefore (a + b) = \frac{a^3 + b^3}{a^2 + b^2 - ab}$$

$$141. 2; ? = (380 \times 44) - (79 \times 84) + 373 \\ = 16720 - 6636 + 373 = 10457$$

$$142. 1; ? = \frac{2.4 \times 740}{100} \times \frac{1.8 \times 590}{100} \\ = 17.76 \times 10.62 = 188.6112 \approx 190$$

$$143. 5; ? = 182 \times 18 + \frac{172 \times 785}{1000} \\ = 3276 + 1350.2 = 4626 \approx 4625$$

$$144. 4; ? = 18 \times 155 + \frac{1245}{32} \\ = 2790 + 38.9 = 2828.9 \approx 2830$$

$$145. 3; ? = 77 \times 14 + 18 \times 15 \\ = 1078 + 270 = 1348 \approx 1350$$

$$146. 2; \sqrt{53.29} \div (30)^{-2} = 7.30 \times 900 = 6570$$

$$147. 4; ? = \frac{366.5 - (1335 \times .13)}{1135} \times 100$$

$$= \frac{192.95 \times 100}{1135} = 17$$

$$148. 5; ? = \frac{115260 \times 11 \times 7}{113 \times 85} = 924$$

$$149. 2; 105 \times ? = (304 \times 14) - 2786 \\ = 4256 - 2786$$

$$\therefore ? = \frac{1470}{105} = 14$$

150. 3

$$151. 2; ? = \frac{22 \times 164.4}{100} + \frac{14 \times 65}{100} \\ = 36 + 9 = 45$$

$$152. 4; ? = \frac{(1.3)^2 + (3)^2}{0.2} \\ = \frac{1.69 + 9}{0.2} = \frac{10.7}{0.2} = 55$$

153. 4

$$154. 2; \sqrt{2020} \approx 45, \sqrt{320} \approx 18, \sqrt{1330} \approx 36.5 \\ \therefore ? = 45 + 18 + 36.5 = 99.5 \approx 100$$

$$155. 3; \therefore ? = \frac{104}{15} + \frac{35}{6} + \frac{9}{2} \\ \approx 7 + 6 + 4.5 = 17.5$$

$$156. 1; ? = (80)^{-2} \times \{ (247.4 + 112.6) \\ (247.4 - 112.6) \} = (80)^{-2} \times \{ 360 \times 134.84 \} \\ = \frac{48528}{6400} = 7.5825$$

$$157. 5; \quad ? = \left\{ \frac{11.8 \times 4450}{100} + \frac{22.5 \times 1680}{100} \right\} \times 40$$

$$\Rightarrow \{525.1\% + 378\} \times 40 = 903.1 \times 40 = 36124$$

$$158. 2; \quad \frac{?}{100} \times 5400 = \frac{7 \times 12 \times 7425}{15 \times 11 \times 5} = 756$$

$$? = \frac{756 \times 100}{5400} = 14$$

$$159. 5; \quad (?)^2 = 735 \times 135 = (15 \times 7 \times 7) \times (15 \times 3 \times 3)$$

$$\text{or; } ? = (15 \times 7 \times 3)^2$$

$$\therefore ? = 15 \times 7 \times 3 = 315$$

$$160. 2$$

$$161. 2; \quad ? = \frac{336633}{872 \times 7} = 55.1495 \approx 55$$

$$162. 1; \quad ? \approx \frac{442 + 788}{6} = \frac{1230}{6} = 205$$

$$163. 3; \quad ? \approx (113 \times 15) - (12 \times 9)$$

$$1695 - 108 = 1587 \approx 1590$$

$$164. 2; \quad ? = \sqrt[3]{389000} \approx 73 \quad \therefore (73)^3 = 389017$$

$$165. 3; \quad ? = \frac{7640}{120} \times 35 = 63.6 \times 35 = 2226$$

$$166. 4; \quad ? = \frac{5652 \times 0.5}{24} = 117.75$$

$$167. 3; \quad ? = \frac{4808}{8 \times 5} = \frac{4808}{40} = 120.2$$

$$168. 1; \quad \frac{65}{100} \times 654 - \frac{?}{100} \times 860 = 210.1$$

$$\text{or, } ? = \frac{65 \times 654 - 21010}{860}$$

$$\text{or, } ? = \frac{42510 - 21010}{860}$$

$$\therefore ? = \frac{21500}{860} = 25$$

$$169. 1; \quad ? = 35154 - 20465 - 5201 = 35154 - 25666$$

$$= 9488$$

$$170. 1; \quad ? = \frac{8}{13} \times \frac{559}{192} = \frac{43}{24} = 1 \frac{19}{24}$$

$$171. 2; \quad ? = 243 \times 124 - 25340$$

$$= 30132 - 25340 = 4792$$

$$172. 2; \quad ? = \frac{92}{8 \times 2} = 5.75$$

$$173. 3; \quad (121)^3 \times 11 \div (1331)^2 = (11)^?$$

$$\text{or } (11^2)^3 \times \frac{11}{(11^3)^2} = (11)^?$$

$$\text{or, } \frac{11^6 \times 11}{11^6} = (11)^?$$

$$\text{or } (11)^1 = (11)^?$$

$$\therefore ? = 1$$

$$174. 5; \quad ? = 283.56 + 142.04 + 661.78 = 1087.38$$

$$175. 5; \quad 281.12$$

$$176. 4; \quad 390.5 \times \sqrt{?} = 284 \times 22$$

$$\text{or } \frac{284 \times 22}{390.5} = \sqrt{?}$$

$$\text{or } \frac{62480}{3905} = \sqrt{?}$$

$$\text{or } 16 = \sqrt{?}$$

$$\therefore ? = 256$$

$$177. 5; \quad ? = 12.5 \times 8.4 \times 7.6 = 798$$

$$178. 4; \quad ? = \frac{4477}{44 \times 5.5} = \frac{4477}{242} = 18.5$$

$$179. 4; \quad ? = \frac{33.5}{100} \times 250 = 33.5 \times 2.5 = 83.75$$

$$180. 3; \quad ? = \frac{1}{2} \times \frac{3}{5} \times \frac{4}{9} \times 5820 = \frac{69840}{90} = 776$$

$$181. 3; \quad \frac{? \times 139.125}{100} = \frac{24.5 \times 48}{100} + \frac{8.4 \times 125}{100}$$

$$= 11.76 + 10.5$$

$$\therefore ? = \frac{22.26 \times 100}{139.125} = 16$$

$$182. 2; \quad \frac{24.84}{?} = 300 \times 0.2 \times 0.03 = 1.8$$

$$\therefore ? = \frac{24.84}{1.8} = 13.8$$

$$183. 4; \quad \frac{320 \times ?}{100} = \frac{8 \times 7 \times 12.5 \times 13728}{13 \times 3 \times 100} = 2464$$

$$\therefore ? = \frac{2464 \times 100}{320} = 770$$

$$184. 2; \quad (6^4)^{3.8} \times (6^3)^{-4} \div \frac{1}{(6)^5} = (36)^?$$

$$\Rightarrow (6)^{15.2} \times (6)^{-12} \div (6)^{-5} = (36)^?$$

$$= (36)^? = (6)^{15.2 - 12 + 5} = (6)^{8.2} = (36)^{4.1}$$

$$\therefore ? = 4.1$$

$$185. 3; \quad \sqrt[3]{?} = 78 \div 13 = 6$$

$$\therefore ? = (6)^3 = 216$$

$$186. 3; ? \approx \frac{27+58}{5} = \frac{85}{5} = 17$$

$$187. 2; ? \approx 7824 \div 48 + 3236 \div 57 \\ = 163 + 56.77 = 219.77 \approx 220$$

$$188. 3; ? = 2.8 \times 3.12 + 1.2 \times 4.16 \\ = 8.736 + 4.992 = 13.728 \approx 14$$

$$189. 3; ? \approx 190 \times 3.25 + 4 \times 112 \\ = 617.5 + 448 = 1065.5 \approx 1065$$

$$190. 4; ? \approx (324 \times 58.42) \div 195 \\ = 18928 \div 195 = 97$$

$$191. 3; (33^2)^{2.8} \div (33)^{-3.4} \frac{1}{(33)^3} = (1089)^? \\ \text{or, } (33)^{5.6} \div (33)^{-3.4} \times (33)^{-3} = (1089)^? \\ \text{or, } (33)^{5.6+5.4-3} = (1089)^? \\ \text{or, } (33)^6 = (1089)^? \\ \text{or, } (1089)^3 = 1089^? \\ \therefore ? = 3$$

$$192. 4; ? = \frac{1.4641}{0.0011} = \frac{14691}{11} = 1331$$

$$193. 1; \frac{? \times 49.5}{100} = \frac{3.6 \times 180}{100} + \frac{2.4 \times 555}{100} \\ = 6.48 + 13.32 = 19.8 \\ \therefore ? = \frac{19.8 \times 100}{49.5} = 40$$

$$194. 1; ? = \frac{7 \times 4 \times 78 \times 4950}{9 \times 3 \times 100} = 4004$$

$$195. 2; ? = \frac{7.25 \times 244 - 2.75 \times 148}{1.2} \\ = \frac{1769 - 407}{1.2} = \frac{1362}{1.2} = 1135$$

$$196. 3; ? \approx 38 \times 35 = 1330$$

$$197. 2; ? \approx \left(\frac{445 \times 336}{100} \right) \div 5 = 1495 \div 5 \\ = 299 \approx 300$$

$$198. 2; ? \approx \frac{8754}{6} \times 5 = 1459 \times 5 = 7300$$

$$199. 3; ? = 1294 + 930 = 3224 = 3225$$

$$200. 5; ? = \frac{550}{10} \times 8.5 = 425$$

$$201. 4; ? = \frac{17}{5} \times \frac{61}{8} \div \frac{7}{3} \times \frac{7}{2} \times \frac{16}{5} \\ = \frac{17 \times 61 \times 3 \times 16}{5 \times 8 \times 2 \times 5} = \frac{3111}{25} = 124.44$$

$$202. 3; ? = \frac{964.72}{77.8 \times 0.8} = 15.5$$

$$203. 1; ? = \frac{4.2 \times 3.75}{0.15} = \frac{15.75}{0.15} = 105$$

$$204. 1; ? = \frac{7 \times 5 \times 45 \times 1593}{15 \times 27 \times 100 \times 2.1} = 29.5$$

$$205. 1; (7.1)^? = \{(7.1)^3\}^{\frac{2}{3}} \times \{(7.1)^2\}^{\frac{3}{2}}$$

$$\text{or, } (7.1)^? = (7.1)^2 \times (7.1)^3$$

$$\text{or, } (7.1)^? = (7.1)^5$$

$$\therefore ? = 5$$

$$206. 5; ? \approx 83 + 37 = 120$$

$$207. 2; ? = (670 + 30 \times 35) \div 6 = 1720 \div 6 \\ = 286.66 \approx 290$$

$$208. 3; \therefore ? = \frac{45 \times 45}{7.5} = 270$$

$$209. 5; ? = \frac{228 \times 450}{100} + \frac{84 \times 845}{100} - 1116 \\ = 1026 + 710 - 1116 = 1736 - 1116 = 620$$

$$210. 3; \therefore ? = \frac{15227}{360 \times 6} = \frac{15227}{2166} = 7.03 = 7$$

$$211. 4; ? \times 116 = 4003 \times 77 - 21015 \\ = 308231 - 21015 = 287216$$

$$\therefore ? = \frac{287216}{116} = 2476$$

$$212. 1; [(5\sqrt{7} + \sqrt{7}) \times (4\sqrt{7} + 8\sqrt{7})] - (19)^2 = ? \\ = [20 \times 7 + 4 \times 7 + 8 \times 7 + 40 \times 7] - 361 \\ = [140 + 28 + 56 + 280] - 361 \\ \therefore ? = 504 - 361 = 143$$

$$213. 2; ? = (4444 \div 40) + (645 \div 25)$$

$$+(3991 \div 26) = \frac{4440}{40} + \frac{645}{25} + \frac{3991}{26} \\ = 111.1 + 25.8 + 153.5 = 290.4$$

$$214. 5; (?)^2 + (37)^2 = \sqrt{33124} \times \sqrt{2601} - (83)^2 \\ \text{or, } (?)^2 + (37)^2 = 182 \times 51 - (83)^2 \\ \text{or, } (?)^2 + 1369 = 9282 - 6889 = 2393 \\ \text{or, } (?)^2 = 2393 - 1369 = 1024$$

$$\therefore ? = \sqrt{1024} = 32$$

$$215. 2; ? = 5 \frac{17}{37} \times 4 \frac{51}{52} \times 11 \frac{1}{7} + 2 \frac{3}{4}$$

$$= \frac{202}{37} \times \frac{259}{52} \times \frac{78}{7} + \frac{11}{4}$$

$$= \frac{202}{37} \times \frac{259}{52} \times \frac{3}{2} + \frac{11}{4}$$

$$= 101 \times 3 + \frac{11}{4} = 303 + \frac{11}{4} = \frac{1212+11}{4}$$

$$= \frac{1223}{4} = 305.75$$

$$216. 3; ? = 8787 \div 343 \times \sqrt{50}$$

$$\therefore ? = 25.61 \times 7.07 = 181.09 \approx 180$$

$$217. 2; \sqrt[3]{54881} \times (303 \div 8) = (?)^2$$

$$\text{or, } 38 \times 37.8 = (?)^2 (\therefore 37.8 \approx 38)$$

$$\text{or, } 38 \times 38 = (?)^2$$

$$\therefore ? = \sqrt{38 \times 38} = 38$$

$$218. 3; ? = \frac{5}{8} \times 4011.33 + \frac{7}{10} \times 3411.22$$

$$\begin{aligned}
 &= \frac{20056.65}{8} + \frac{23878.54}{10} \\
 &= 2507.08 + 2387.854 = 2507 + 2387 \\
 &= 4894 \approx 4890 \\
 219.5; \quad ? &= 23\% \text{ of } 6783 + 57\% \text{ of } 8431 \\
 &= \frac{23}{100} \times 6783 + \frac{57}{100} \times 8431 \\
 &= 23 \times 67.83 + 57 \times 84.31 \\
 &= 1560.09 + 4805.67 = 6365.76 \approx 6360 \\
 220.1; \quad ? &= 335.01 \times 244.99 \div 55 \\
 &= 335 \times 245 \div 55 \\
 &= 335 \times \frac{245}{55} = \frac{82075}{55} = 1422.27 \approx 1490 \\
 221.3; \quad \sqrt{?} &= \frac{153 \times 46}{18} = 391 \\
 \therefore ? &= (391)^2 = 152881 \\
 222.5; \quad ? &= \frac{3834}{27} \times \frac{3920}{112} = 142 \times 35 = 4970 \\
 223.2; \quad \therefore ? &= \frac{2.8 \times 1220}{100} + \frac{7.4 \times 780}{100} \\
 &= 34.16 + 57.72 = 91.88 \\
 224.4; \quad ? &= \frac{0.6 \times 2.8 \times 3.5}{0.0049} = \frac{5.88}{0.0049} = 1200 \\
 225.1; \quad ? &= \frac{30}{100} \times 125 + \frac{70}{100} \times 15 \\
 &= 37.5 + 10.5 = 48 \\
 226.5; \quad ? &\approx \frac{280 \times 1525}{100 \times 17} \approx 250 \\
 227.3; \quad ? &= 670 + 119 \times 22 - 80 \\
 &= 670 + 2618 - 80 = 3288 - 80 \\
 &= 3208 \approx 3200 \\
 228.1; \quad ? &= \frac{613}{15 \times 6} = 6.81 \approx 7 \\
 229.5; \quad \therefore (8.5)^3 &= 614.125 \approx 615 \\
 \therefore \sqrt[3]{615} &\approx 8.5 \\
 230.2; \quad ? &= \frac{314 \times 710}{100 \times 114} = 19.55 = 20 \\
 231.5; \quad \frac{80}{100} \times ? &= (125 \div 0.5) \div 0.5 \\
 &= 250 \div 0.5 = 500 \\
 \therefore ? &= \frac{500 \times 100}{80} = 625 \\
 232.3; \quad \sqrt{\sqrt{194481}} &= \sqrt{441} = 21 \\
 233.3; \quad \frac{8.5}{0.25} + \frac{4.4}{0.2} &= \frac{80 \times ?}{100} \\
 \text{or, } 8.5 \times 4 + 4.4 \times 5 &= \frac{4 \times ?}{5} \\
 \therefore ? &= (34 + 22) \times \frac{5}{4} = 70
 \end{aligned}$$

$$\begin{aligned}
 234.5; \quad \therefore ? &= \frac{3 \times 4 \times 9 \times 21175}{5 \times 7 \times 11 \times 2^2 \times 3^3} = \frac{21175}{5 \times 7 \times 11} \\
 &= \frac{21175}{385} = 55 \\
 235.2; \quad \left[\sqrt[3]{\sqrt{83521}} \right]^3 &= \left[\sqrt[3]{289} \right]^3 \\
 &= \left[(289)^{\frac{3}{2}} \right]^{\frac{3}{2}} = 289^{\frac{3 \times 3}{2 \times 2}} \\
 &= (289)^{\frac{1}{2}} \\
 \therefore \sqrt{289} &= 17 \\
 236.5; \quad \approx \frac{16.5 \times 1400}{100} + \frac{115 \times 1200}{100} &= 231 + 1380 \\
 &= 1611 \approx 1610 \\
 237.3; \quad \sqrt{1220} &\approx 35 \\
 \sqrt{4897} &\approx 70 \\
 \therefore 35 \times 16 + 70 &= 560 + 70 = 630 \\
 238.2; \quad \approx 18 \times 12 + 23 \times 15 &= 216 + 345 \\
 &= 561 \approx 560 \\
 239.5; \quad \approx (2285 \div 5 + 17) \div 6 &= (457 + 17) \div 6 = 79 \\
 240.4; \quad \approx (445900 \div 980) + (1625 \div 65) \\
 &= 455 + 25 = 480 \\
 241.2; \quad (7^4)^{\frac{3}{4}} \div 7^{-3} \div 7^7 &= 7^? \\
 \text{or, } 7^3 \div 7^{-3} \div 7^7 &= 7^? \\
 \text{or, } 7^{3+3-7} &= 7^? \\
 \text{or, } 7^{-1} &= 7^? \\
 \therefore ? &= -1 \\
 242.3; \quad \frac{? \times 20}{100} &= \frac{28.2 \times 125}{100} + \frac{7.8 \times 175}{100} \\
 &= 35.25 + 13.65 = 48.9 \\
 ? &= 5 \times 48.9 = 244.5 \\
 243.1; \quad (26^3)^{\frac{1}{3}} \times (26)^2 \div 2197 &= (4096)^{\frac{?}{8}} \\
 &= 26 \times (26)^2 \div (13)^3 = (4096)^{\frac{?}{8}} \\
 &= \left(\frac{26}{13} \right)^3 = (4096)^{\frac{?}{8}} \\
 \text{Let } ? &= x \\
 8^1 &= (4096)^{\frac{x}{8}} = 8^{\frac{4x}{8}} = 8^{\frac{x}{2}} \\
 \therefore 1 &= \frac{x}{2} \\
 \therefore x &= 2 \\
 244.5; \quad 252252 \div 63 \times 77 &= ? \\
 \therefore ? &= \frac{252252}{63 \times 77} = \frac{252252}{4851} = 52
 \end{aligned}$$

$$245. 3; ? = \frac{125 \times 225 \times 7 \times 4128}{100 \times 100 \times 6} = 13545$$

$$246. 2; ? \approx \frac{33 \times 5}{11} = 15$$

$$247. 3; ? \approx \frac{85 \times 490}{100} + \frac{73 \times 850}{100} \\ = 416.5 + 620.5 = 1037 \approx 1035$$

$$248. 1; ? \approx 24 \times 19 - 7.25 \times 44 + 13 \\ = 456 - 319 + 13 = 150$$

$$249. 2; ? \approx \{(645 \div 15) + 2\} \times 16 = 720$$

$$250. 4; ? \approx 22.22 \times 33.3 \times 0.44 = 325.567 \approx 325$$

$$251. 5; \left\{ \left(\frac{7.12 \times 8500}{100} \right) - \left(\frac{3.6 \times 5500}{100} \right) \right\} \times \frac{100}{1.6} \\ = (605.2 - 198) \times \frac{100}{1.6} = \frac{407.2 \times 100}{1.6} = 25450$$

$$252. 2; ? = \frac{13 \times 12 \times 47 \times 40375}{17 \times 19 \times 100 \times 6} = 1527.5$$

$$253. 4; (?)^2 = 4608 \times 5202 \\ \therefore ? = \sqrt{(16 \times 17 \times 18)^2} = 16 \times 17 \times 18 = 4896$$

$$254. 3; ? = 59.5 \times 7.5 \div 0.15 = 2975$$

$$255. 2; (7.2)^? = (7.2)^{3.2} \times (7.2)^{-1.6} \div (7.2)^{-3.6} \\ \times (7.2)^{-2.4} \text{ or } (7.2)^? = (7.2)^{3.2 - 1.6 + 3.6 - 2.4} = (7.2)^{2.8} \\ \therefore ? = 2.8$$

$$256. 2; ? \approx 1145 \times 5.85 \times 3.2 \div 12 \\ = 1786.2 \approx 1790$$

$$257. 5; ? = 112.2 \times 132.5 \times 4.8 \div 18 \\ = 3964.4 \approx 3960$$

$$258. 2; ? \approx \frac{27.8 \times 35 \times 5}{25} + 6 = 194.6 + 6 = 200$$

$$259. 4; ? = \frac{27 \times 5678}{100} - \frac{37 \times 2345}{100} \\ = 1533.06 - 867.65 = 665.41 \approx 665$$

$$260. 3; \sqrt{429020} \approx 655 \\ ? = \frac{648 \times 655}{100} = 4244.4 = 4250$$

$$261. 2 \quad \frac{1 \times ?}{100} = 21.45 + 4.96 = 26.41 \\ \therefore ? = 2641$$

$$262. 4; ? = \frac{12}{19} \times \frac{7}{5} \times \frac{45}{100} \times 8075 = 3213$$

$$263. 3; \frac{20 \times ?}{100} = 732 + 302 = 1034 \\ \therefore ? = 5 \times 1034 = 5170$$

$$264. 2; \therefore 4913 = 17 \times 17 \times 17 \text{ and } 2197 \\ = 13 \times 13 \times 13$$

$$\therefore ? = \frac{(17^3)^{\frac{2}{3}} \times (13^3)^{\frac{2}{3}}}{221} = \frac{(17)^2 \times (13)^2}{221} = 221$$

$$265. 2; 3 \times ? = \frac{65 \times 132}{100} + \frac{12.5 \times 57.6}{100} \\ = 85.8 + 7.2 = 93$$

$$\therefore ? = \frac{93}{3} = 31$$

$$266. 4; ? = \frac{148 \times 13785}{100} = 20401.8 \approx 20400$$

$$267. 3; \therefore \sqrt{1445} = 38 \\ \therefore ? \approx 38 + \frac{8}{7} \times 168 = 38 + 192 = 230$$

$$268. 2; \therefore \sqrt{24000} \approx 155 \\ \therefore ? \approx 155 \times 36 + 175 \times 4 = 5580 + 700 = 6280$$

$$269. 3; \therefore \sqrt{1935} = 44 \\ \therefore ? = \frac{4488}{44} + \frac{172}{4} = 102 + 43 = 145$$

$$270. 3; ? = \frac{1884 \times 73}{100} \div 25 \approx \frac{1375}{25} = 55$$

$$271. 5; (?)^3 = (\sqrt{5} - \sqrt{10})^2 + (\sqrt{2} + 5)^2 \\ = 5 - 2\sqrt{50} + 10 + 2 + 10\sqrt{2} + 25 \\ = 5 - 10\sqrt{2} + 10 + 2 + 10\sqrt{2} + 25 = 42 \\ \text{or, } (?)^3 = 42 + 22 = 64 \\ \therefore ? = \sqrt[3]{64} = 4$$

$$272. 1; \frac{55 \times \sqrt{2116}}{100} \div 0.01 = ? \times 20 \\ (\because \sqrt{2116} = \sqrt{46 \times 46} = 46) \\ \text{or, } ? \times 20 = \frac{55 \times 46}{100 \times 0.01} = \frac{55 \times 46}{1} = 2530$$

$$\therefore ? = \frac{2530}{20} = 126.5$$

$$273. 1; (?)^2 = \sqrt{12^2 \times 16 \div 24 + 193 + 7 \times 5} \\ = \sqrt{144 \times \frac{16}{24} + 193 + 35} \\ = \sqrt{96 + 193 + 35} = \sqrt{324} \\ \text{or, } (?)^2 = \sqrt{324} = 18 \\ \therefore ? = \sqrt{18} = \sqrt{3 \times 3 \times 2} = 3\sqrt{2}$$

$$274. 4; (?)^2 = \frac{\sqrt{31.36} \div \sqrt{0.64} \times 252}{36}$$

$$= \frac{5.6 \times 252}{0.8 \times 36} = \frac{7 \times 252}{36} = 49$$

$$\therefore ? = \sqrt{49} = \pm 7 \text{ Hence, } -7$$

$$275. 3; \therefore (1.69)^4 \div \left(\frac{2197}{1000} \right)^3 \times 13^3 = 13^{7-2}$$

$$\text{or, } (1.3)^8 \div (1.3)^{3 \times 3} \times 13^3 = 13^{7-2} \\ \text{or, } 1.3^{8-9+3} = 13^{7-2} \\ \text{or, } 13^2 = 13^{7-2} \quad \text{or, } ? - 2 = 2 \\ \therefore ? = 2 + 2 = 4$$

$$276. 4; ? = \frac{68 \times 1288}{100} + \frac{26 \times 734}{100} - 215$$

$$= 875.84 + 190.84 - 215$$

$$= 876 + 191 - 215 = 852 \approx 850$$

$$277. 2; ? = (32.05)^2 - (18.9)^2 - (11.9)^2$$

$$= 1027 - 357 - 144 = 526 \approx 530$$

$$278. 2; ? = \frac{6578 \times 15}{67 \times 6} = 250$$

$$279. 5; ? = \frac{680}{45} \times \frac{2130}{23} \times \frac{126}{169} = \frac{680}{45} \times \frac{2130}{23} \times \frac{126}{170}$$

$$= 1043 \approx 1040$$

$$280. 3; \sqrt{5687} \times \sqrt{1245} \div \sqrt{689} = ? \div 13$$

$$\therefore ? = \frac{\sqrt{5687} \times \sqrt{1245} \times 13}{\sqrt{689}}$$

$$= \frac{74.4 \times 35.2 \times 13}{26.2} \approx 1320$$

$$281. 3; (a + b)^2 = a^2 + 2ab + b^2$$

Now,

$$\frac{(3.4 + 2.4)^2}{(0.7 + 0.3)^2} = ?^2$$

$$\text{or, } ?^2 = \frac{36}{1} = 36$$

$$\therefore ? = \sqrt{36} = 6$$

$$282. 5; (1.2)^{1.7} \times \{(1.2)^{2.07} \div \{(1.2)^2\}^{-1.45} \div \{(1.2)^2\}^3\}$$

$$= 1.2^{1.7} \times 1.2^{1.4} \div 1.2^{-2.9} \div 1.2^6$$

$$= (1.2)^{1.7 + 1.4 - (-2.9) - 6} = (1.2)^{6-6} = (1.2)^0 = 1$$

$$283. 1; (10019)^2 = (10000 + 19)^2$$

$$= 100000000 + 380000 + 361 = 100380361$$

$$284. 2; ? = \frac{3 \times 11 \times 5 \times 20475}{7 \times 5 \times 13 \times 275} = 27$$

$$285. 4; \frac{340 \times 745}{100} - 2000 = \frac{?}{100} \times \frac{1}{10}$$

or, ? = 533 × 1000 = 533000

$$286. 3; \frac{340 \times 705}{100} + \frac{136 \times 1330}{100}$$

$$= 2397 + 1808.8 = 4205.8 \approx 4200$$

$$287. 2; ? = 30 \times 14 + 40 \times 12 = 420 + 480 = 900$$

$$288. 1; ? = \frac{230855}{570 \times 9} = 45$$

$$289. 3; 33.33 \times 333.3 = \frac{3333 \times 3333}{1000}$$

$$= 11108.889 \approx 11110$$

$$290. 4; \frac{1.7 \times 1600}{100} + \frac{0.7 \times 1000}{100}$$

$$= 27.2 + 7 \approx 34$$

$$291. 3; (14)^? = (14)^{0.2} \times (14)^{1.3} \times (14^3)^{1.4} \div (14)^4$$

or, $(14)^? = 14^{0.2} \times 14^{2.6} \times 14^{4.2} \div (14)^4$

$$= 14^{(0.2 + 2.6 + 4.2) - 4}$$

$$= 14^{7-4} = (14)^3$$

$$292. 4; ? = \frac{83300}{35 \times 85} = 28$$

$$293. 2; \sqrt{(10648)^{\frac{1}{3}} - (7776)^{\frac{1}{5}}} = \sqrt[5]{?}$$

$$\text{or, } \sqrt{(22^3)^{\frac{1}{3}} - (6^5)^{\frac{1}{5}}} = \sqrt[5]{?}$$

$$\text{or, } \sqrt[5]{?} = \sqrt{22-6} = \sqrt{16} = 4$$

$$\text{or, } \sqrt[5]{?} = 4$$

$$\therefore ? = (4)^5 = 4096$$

$$294. 2; (?)^2 = 1224 \times 306 = (18 \times 17 \times 4) \times (18 \times 17)$$

$$= (18 \times 17 \times 2)^2$$

$$\therefore ? = 18 \times 17 \times 2 = 612$$

$$295. 1; \frac{8}{15} + \frac{4}{25} = \frac{40+12}{75} = \frac{52}{75}$$

$$\text{Now, } ? = \frac{780 \times 75}{52} = 1125$$

$$296. 2; \frac{127 \times 75}{100} + \frac{28 \times 277}{100}$$

$$= 95.25 + 77.56 = 172.81 \approx 173$$

$$297. 3; \frac{0.0324 + 2.56}{0.08} = \frac{2.5924}{0.08} = 32.4 \approx 32$$

$$298. 4; ? \approx (60 \div 2) \times 7 - 18 \times 3 = 210 - 54 = 156 \approx 155$$

$$299. 2; (110)^3 = 1331000 \approx 1330000$$

$$300. 3; ? = \{8843 - (12 \times 2 \times 7)\} \times 2.5$$

$$= (8843 - 168) \times 2.5 = 8675 \times 2.5$$

$$= 21687.5 \approx 21700$$

$$301. 3; 17 \times 17^? = (17)^{8.8} \times (17^2)^{-1.4} \div (17)^1$$

$$= (17)^{8.8} \times (17)^{-2.8} \div 17 = (17)^{8.8-2.8-1} = (17)^5$$

or $17^? = 17^{5-1} = 17^4$

$$\therefore ? = 4$$

$$302. 5; \frac{30 \times ?}{100} = \frac{2.4 \times 775}{100} + \frac{8.4 \times 525}{100}$$

$$= 18.6 + 44.1 = 62.7$$

$$\therefore ? = \frac{62.7 \times 100}{30} = \frac{627}{3} = 209$$

$$303. 3; ? = \frac{0.00102}{0.000017} \times 17.75 = \frac{1020}{17} \times 17.75$$

$$= 60 \times 17.75 = 1065$$

$$304. 1; (12^3)^{\frac{2}{3}} \div (18^3)^{\frac{2}{3}} = (12)^2 \div (18)^2$$

$$= (12)^2 \times (18)^2$$

$$\therefore ? = \frac{12 \times 12 \times 18 \times 18}{9} = 5184$$

$$305. 2; ? = \frac{45 \times ?}{100} = \frac{1260}{28} \times 6.4 = 45 \times 6.4$$

$$\therefore ? = 6.4 \times 100 = 640$$

$$306. 2; ? = \frac{20300}{159 \times 16} = 7.979 \approx 8$$

$$307. 3; ? = \frac{142 \times 72}{36} = 284 \approx 285$$

$$308. 3; ? \approx \frac{2.8 \times 1725}{100} + \frac{1.74 \times 555}{100}$$

$$= 48.3 + 9.657 = 57.957 \approx 58$$

$$309. 1; ? \approx \frac{(1370+19 \times 20)}{25} = \frac{1370+380}{25} = \frac{1750}{25} = 70$$

$$310. 3; ? = \frac{7392}{44} + 18 \times 4.5 \\ = 168 + 81 = 249 \approx 250$$

$$311. 3; \frac{85 \times 4 \times 6755}{100 \times 7} - 1687 = 17 \times 193 - 1687 \\ = 3281 - 1687 = 1594$$

$$312. 1; (?)^{\frac{1}{2}} = \left(\frac{5568}{87}\right)^{\frac{1}{3}} + (144)^{\frac{1}{2}} \\ = (64)^{\frac{1}{3}} + (12^2)^{\frac{1}{2}} = (4^3)^{\frac{1}{3}} + (12^2)^{\frac{1}{2}} \\ = 4 + 12 = 16$$

$$313. 4; (?)^2 = \sqrt{13^2 + 28 \div 4 - (3)^3 + 107} \\ = \sqrt{169 + 7 - 27 + 107} \\ = \sqrt{283 - 27} = \sqrt{256} = 16 \\ \therefore ? = \sqrt{16} = 4$$

$$314. 2; (0.7)^{2+3} = (0.7)^{2 \times 4} + (0.7)^{3 \times 4} \div (0.7)^{4 \times 4} \\ = (0.7)^{8+12-16} = (0.7)^4 \\ \therefore ? = 4 - 3 - 1$$

$$315. 5; \sqrt{2025} = 45$$

$$\text{Now, } \frac{45 \times 45}{0.01 \times 100} = (?)^2 \div 25$$

$$\text{or, } 2025 = \frac{(?^2)}{25}$$

$$\text{or, } (?)^2 = 50625$$

$$? = \sqrt{50625} = 225$$

$$316. 5; (1) 479.3 + 138.6 - 38.4 = 6179 - 38.4 = 579.5 \\ (2) 36.5 - 844.6 + 1289 = 1325.5 - 844.6 = 480.9 \\ (3) 931 - 564 + 156 = 1087 - 564 = 523 \\ (4) 564 - 231 + 120 = 684 - 213 = 471 \\ (5) 130 - 461 + 888 = 1018 - 461 = 557 \\ \text{Thus, 557 is the second largest number amongst them}$$

$$317. 5; (1) 840 \div 16 = 52.5 \\ (2) 1800 \div 36 = 50 \\ (3) 2646 \div 49 = 54 \\ (4) 2184 \div 56 = 39 \\ (5) 1536 \div 26 = 59.07 = 59 \\ \text{Hence, 59 is the highest amongst them.}$$

$$318. 2; 1) \left(\frac{5}{9} \times 1250\right)^{\frac{1}{2}} = \sqrt{\frac{5 \times 1250}{9}} = \sqrt{\frac{6250}{9}} \\ = \frac{79.05}{3} = 26.35 \approx 26$$

$$2) \left(\frac{7}{13} \times 4112\right)^{\frac{1}{3}} = \left(\frac{28784}{13}\right)^{\frac{1}{3}} \\ = \sqrt[3]{2214} \approx (13.1)^{\frac{3 \times \frac{1}{3}}{3}} = 13.11$$

$$3) \left(\frac{5}{19} \times 3221\right)^{\frac{1}{2}} = \left(\frac{16105}{19}\right)^{\frac{1}{2}} = \sqrt{847} \approx \sqrt{841} = 29$$

$$4) \left(\frac{15}{11} \times 412\right)^{\frac{1}{2}} = \left(\frac{6180}{11}\right)^{\frac{1}{2}} = \sqrt{561} = 23.7 \approx 24$$

$$5) \left(\frac{17}{13} \times 3444\right)^{\frac{1}{3}} = \left(\frac{58548}{13}\right)^{\frac{1}{3}} = \sqrt[3]{4503} = 16.5$$

Hence, 13.1 is the smallest number among them.

$$319. 5; \text{Cost of 8 dozen eggs} = \text{Rs } 256$$

$$\text{Cost of } 8 \times 12 \text{ eggs} = \frac{256}{8 \times 12}$$

$$\text{Hence cost of 9 eggs} = \frac{256 \times 9}{8 \times 12} \\ = (256 \times 9) \div (8 \times 12)$$

$$320. 5; \frac{24 \times 4568}{100} \div \frac{8 \times 246}{100} = 1096.32 \div 19.68 \\ = 55.69 \approx 55$$

$$321. 3; \frac{? \times 168}{100} = 22.68 - 10.08 = 12.6 \\ \therefore ? = \frac{12.6 \times 100}{168} = 7.5$$

$$322. 2; \sqrt{70.56} \div (70.56)^{\frac{-3}{2}} = (8.4)^?$$

$$\text{or, } 8.4 \div (8.4)^{2 \times \frac{-3}{2}} = (8.4)^?$$

$$\text{or, } (8.4)^? = 8.4^{1+3} = 8^4$$

$$\therefore ? = 4$$

$$323. 2; \frac{? \times 2576}{100} = \frac{17.5 \times 1520}{100} - \frac{8.75 \times 1200}{100} \\ = \frac{26600 - 10500}{100} = \frac{16100}{2576} = 6.25$$

$$324. 5; ? \times 9 = \frac{26}{3} \times 1263 + \frac{41}{9} \times 1179 \\ = 26 \times 421 + 41 \times 131 = 10946 + 5371 \\ \therefore ? = \frac{16317}{9} = 1813$$

$$325. 4; \frac{75 \times ?}{100} = \frac{32 \times 885}{100} - \frac{20 \times 66}{100} \\ = 283.2 - 13.2 = 270 \\ \therefore ? = \frac{270 \times 100}{75} = 360$$

$$326. 3; ? = 12.8 \times 8.5 = 108.8 \approx 110$$

$$327. 2; ? = (22 \times 3.5) \times 12 = 924 \approx 925$$

$$328. 4; ? = 29 \times 25 - 8 \times 15 = 725 - 120 = 605 \approx 600$$

$$329. 1; ? = \frac{245 \times 50}{100} - \frac{115 \times 42}{100} \\ \therefore ? = 122.5 - 48.3 = 74.2 \approx 75$$

$$330. 3; ? = \sqrt{5930} \times \sqrt[3]{43} \approx 77 \times 3.5 \\ = 269.5 \approx 270$$

$$331. 2; \frac{12.5 \times ?}{100} = \frac{144 \times 75}{100} - \frac{48 \times 150}{100} + \frac{4.8 \times 2250}{100} \\ = 108 - 72 + 108 = 144$$

$$\therefore ? = 144 \times \frac{100}{12.5} = 1152$$

$$332. 2; ? = \frac{3}{8} \times \frac{2}{5} \times \frac{13}{7} \times \frac{35}{100} \times 10780 = 10510.5$$

$$333. 4; ? = 2 \times (174)^2 + 2 \times (84)^2 = 2\{(174)^2 + (84)^2\}$$

$$= (174 + 84)^2 + (174 - 84)^2 = (258)^2 + (90)^2$$

$$\therefore ? = 66564 + 8100 = 74664$$

$$334. 3; ? = (3+1+3-6) + \left(\frac{2}{3} + \frac{3}{4} + \frac{2}{7} - \frac{1}{2}\right)$$

$$= 1 + \left(\frac{56+63+24-42}{84}\right) = 1 + \left(\frac{101}{84}\right) = 2\frac{17}{84}$$

$$335. 2; 11^? \div 2 = (11^3)^{\frac{2}{3}} \times (22^2)^{\frac{1}{2}} \div (11^2)^{-1}$$

$$= (11)^2 \times (22)^{-1} \times (11)^2$$

$$\frac{(11)^?}{2} = \frac{(11)^2 \times (11)^2}{11 \times 2} = \frac{(11)^3}{2}$$

$$\therefore ? = 3$$

$$336. 4; ? \approx \left\{48 \div \frac{12}{8.5}\right\} \times 7.5 = 34 \times 7.5 = 255$$

$$= (212.395 + 56.55) \times 12.5$$

$$= 268.945 \times 12.5 = 3361.8 \approx 3360$$

$$337. 2; ? =$$

$$(212.395 + 56.55) \times 12.5 = 268.945 \times 12.5$$

$$= 3361.8 = 3360$$

$$338. 3; ? \approx (184 \times 45) \div 9 = 184 \times 5 = 920$$

$$339. 5; ? \approx \{(220 \times 25) - (24 \times 55)\}^n \times 8.5$$

$$= (5500 - 1320) \times 8.5 = 4180 \times 8.5$$

$$= 35530 \approx 35500$$

$$340. 1; ? \approx (33.5 \times 184) + \frac{465 \times 172}{100}$$

$$= 6164 + 800 = 6964 \approx 6960$$

$$341. 3; \sqrt{?} = \sqrt{(46656)^{\frac{1}{3}}} + \sqrt{462.25}$$

$$= \sqrt{(36)^{3 \times \frac{1}{3}}} + \sqrt{(21.5)^2}$$

$$\text{or, } \sqrt{?} = \sqrt{36} + 21.5 = 6 + 21.5 = 27.5$$

$$\therefore ? = 27.5 \times 27.5 = 756.25$$

$$342. 2; \frac{1}{6} \times \frac{300}{700} \times \frac{500}{700} \times 4116$$

$$= \frac{1}{6} \times \frac{3}{7} \times \frac{5}{7} \times 4116$$

$$= 42 \times 5 = 210$$

$$343. 2; \frac{? \times 630}{100} = \frac{88 \times 1500}{100} + \frac{75 \times 340}{100}$$

$$= 1320 + 255 = 1575$$

$$\text{or, } ? \times 630 = 1575 \times 100$$

$$\therefore ? = \frac{157500}{630} = 250$$

$$344. 4; \{(6)^{3.6} \div (6)^{2 \times 4.2}\}^{\frac{1}{4}} = \sqrt{?}$$

$$\text{or, } \{6^{3.6} \div (6)^{8.4}\}^{\frac{1}{4}} = \sqrt{?}$$

$$\text{or, } \{(6)^{3.6+8.4}\}^{\frac{1}{4}} = \sqrt{?}$$

$$\text{or, } 6^{\frac{12}{4}} = \sqrt{?}$$

$$\text{or, } 6^3 = \sqrt{?}$$

$$\therefore ? = 216 \times 216 = 46656$$

$$345. 3; (?)^3 = \sqrt{32041} \times \sqrt{3364} - (56)^2 - 387$$

$$= 179 \times 58 - 3136 - 387$$

$$= 10382 - 3523 = 6859$$

$$\therefore ? = \sqrt[3]{19 \times 19 \times 19} = 19$$

$$346. 2; \frac{260 \times ?}{100} = \frac{131 \times 458}{100} + \frac{341 \times 130}{100}$$

$$\text{or, } \frac{260 \times ?}{100} = 599.98 + 443.3 = 1043.28$$

$$\text{or, } 260 \times ? = 104328$$

$$? = \frac{104328}{260} = 401.26 \approx 402$$

$$347. 1;$$

$$\sqrt[4]{(?)^2} = \sqrt[3]{5830} + \sqrt{10600} = \sqrt{5832} + \sqrt{10609}$$

$$= \sqrt[3]{18 \times 18 \times 18} + \sqrt{103 \times 103}$$

$$\text{or, } \sqrt[4]{(?)^2} = 18 + 103 = 121$$

$$\text{or, } (?)^{\frac{2}{4}} = 121$$

$$\text{or, } (?)^{\frac{1}{2}} = 121$$

$$\therefore ? = 121 \times 121 = 14641$$

$$348. 2; 23\frac{1}{3}\% \text{ of } ? = \sqrt{144.98\% \text{ of } 2163.05}$$

$$\text{or, } \frac{70 \times ?}{3 \times 100} = \sqrt{\frac{145 \times 2163}{100}}$$

$$\text{or, } \frac{70 \times ?}{300} = \sqrt{1.45 \times 2163}$$

$$= \sqrt{3136.35} \approx 56$$

$$\therefore ? = \frac{56 \times 300}{70} = 240$$

$$349. 4; \sqrt{?} = \frac{26100}{9800} \times \frac{1640}{7400} \times \frac{4660}{390}$$

$$\sqrt{?} = \frac{26}{98} \times \frac{16.40}{74} \times \frac{4660}{390} = \frac{1987024}{2828280} \approx 7.03$$

$$\therefore ? = 7 \times 7 = 49$$

$$350. 3; ? = 47\% \text{ of } 440 + 446\% \text{ of } 370$$

$$\frac{47 \times 440}{100} + \frac{446 \times 370}{100}$$

$$= 47 \times 4.40 + 4.46 \times 370$$

$$= 206.8 + 1650.2 = 1857 \approx 1860$$

$$351. 3; ? = (3749.3409 + 2309.9413 + 13.0405) - (2959.9987 + 1350.009 + 113.45)$$

$$= 6072.3227 - 4423.4577 = 1648.865$$

$$352. \quad 5; ? = 137.5 \times 33.75 - 43.52 \times 73.5 + \frac{3}{11} \times 14641$$

$$= 4640.625 - 3198.72 + 3 \times 1331$$

$$= 1441.905 + 3993 = 5434.905$$

$$353. \quad 4; 196 \times 14 + 256 = ? - 14$$

$$\text{or, } ? = 2744 + 256 + 14 = 3014$$

$$354. \quad 3; 0.006 \times 30 + 1.0034 = ? - 34$$

$$\text{or, } ? = 0.18 + 1.0034 + 34 = 35.1834$$

$$355. \quad 2; 14.5 + 4.05 + 139.25 = 157.80$$

$$356. \quad 1; 29.099 \approx 29.10 \text{ and } 8.807 \approx 8.80 \text{ and } 17.901 \approx 18$$

$$\text{So,}$$

$$29.10 \times 8.80 \times 18 = 256.08 \times 18$$

$$= 4609.44 \approx 4605$$

$$357. \quad 3; ? = 4 \frac{7}{8} \times 7 \frac{4}{5} \times 3 \frac{4}{5} = \frac{39}{8} \times \frac{39}{5} \times \frac{19}{5}$$

$$= \frac{1521 \times 19}{200}$$

$$\therefore ? = \frac{28899}{200} = 144.495 \approx 144$$

$$358. \quad 2; \therefore (50243408)^{\frac{1}{3}} \approx (50243409)^{\frac{1}{3}} = 369$$

$$\text{and, } (48627124)^{\frac{1}{3}} \approx (48627125)^{\frac{1}{3}} = 365$$

$$\text{Again, } (7529535)^{\frac{1}{3}} \approx (7529536)^{\frac{1}{3}} = 196$$

So,

$$? = (50243408)^{\frac{1}{3}} - (48627125)^{\frac{1}{3}} + (7529536)^{\frac{1}{3}}$$

$$= (50243409)^{\frac{1}{3}} - (48627124)^{\frac{1}{3}} + (7529536)^{\frac{1}{3}}$$

$$359. \quad 3;$$

$$14.7 \times 8.41 + 23.7 \times 6.31 = ? + 14.039 \times 7.81$$

$$\text{Now, } 8.41 \approx 8.4 \text{ and } 6.31 \approx 6.3 \text{ and } 14.039 \approx 14$$

$$\text{and } 7.81 \approx 7.8$$

So,

$$14.7 \times 8.4 + 23.7 \times 6.3 = ? + 14 \times 7.8$$

$$\text{or } 123.48 + 149.31 = ? + 109.2$$

$$\text{Again, } 123.48 \approx 123, 149.31 \approx 149$$

$$\text{and } 109.2 \approx 109$$

$$\text{So, } 123 + 149 = ? + 109$$

$$\text{or, } ? = 272 - 109 = 163 \approx 160$$

$$360. \quad 2; (862.415)^2 = (862)^2 + (862 + 863) \times 4.15$$

$$= 743044 + 1725 \times 4.15$$

$$= 743044 + 715.87 = 743760$$

In the same way,

$$(798.375)^2 = (798)^2 + (798 + 799) \times 0.375$$

$$= 636804 + 1597 \times 0.375$$

$$= 636804 + 598.875$$

$$= 637402$$

Now,

$$? = (862.415)^2 - (798.315)^2 - (37.375)^2 + (191.499)^2$$

$$= 743760 - 637402 - 1397 + 36672$$

$$= 141633 \approx 141630$$

$$361. \quad 2; 35 \frac{5}{7} \% \text{ of } 6510 + 77 \frac{7}{9} \% \text{ of } 5886$$

$$= ? \% \text{ of } 6126 + 50 \% \text{ of } 5638$$

$$\text{or, } \frac{5}{14} \text{ of } 6510 + \frac{7}{9} \text{ of } 5886 - \frac{1}{2} \text{ of } 5638$$

$$= ? \% \text{ of } 6126$$

$$\text{or, } \frac{? \times 6126}{100} = 2325 + 4578 - 2819 = 4084$$

$$\therefore ? = \frac{4084}{6126} \times 100 = 66.66$$

$$362. \quad 3; \sqrt[3]{262144} + (15129)^{\frac{1}{2}} = \sqrt{(6561)^{\frac{1}{2}}} + ?$$

$$\text{or, } 64 + 123 = 9 + ?$$

$$\text{or, } ? = 178$$

$$\therefore ? = 178$$

$$363. \quad 1; 0.36 \times 6550 + 0.8 \times 5625 - 0.6 \times 9530$$

$$= ? \% \text{ of } 4560$$

$$\text{or, } \frac{? \times 4560}{100} = 2358 + 4500 - 5718 = 1140$$

$$\therefore ? = \frac{1140}{4560} \times 100 = 25$$

$$364. \quad 1; (27)^2 + \sqrt[3]{5832} = ? \% \text{ of } 5976$$

$$\text{or, } \frac{? \times 5976}{100} = 729 + 18 = 747$$

$$\therefore ? = \frac{747}{5976} \times 100 = 12 \frac{1}{2}$$

$$365. \quad 4; 7 \frac{3}{4} \div 46 \frac{1}{2} \times 8 \frac{2}{3} + 2 \frac{5}{9} = (?)^2$$

$$\text{or, } (?)^2 = \frac{31}{4} \times \frac{2}{93} \times \frac{26}{3} \times \frac{23}{9} = 4$$

$$\text{or, } (?)^2 = (2)^2$$

$$\therefore ? = 2$$

$$366. \quad 1; \frac{? \times 4896}{100} = \frac{79 \times 9876}{100} - \frac{38 \times 6785}{100} - 2479$$

$$= 0.79 \times 9876 - 0.38 \times 6785 - 2479$$

$$= 7802 - 2578 - 2479$$

$$= 7802 - 5057 = 2745$$

$$\therefore ? = \frac{2745}{4896} \times 100 = 56.06 \approx 56$$

$$367. \quad 5; (?)^2 = \sqrt{(4096)^{\frac{1}{3}}} \times \sqrt{65536}$$

$$= \sqrt{16^{3 \times \frac{1}{3}}} = \sqrt{16^4}$$

$$= 4 \times 16 \times 16 = 256 \times 4 = 1024$$

$$\therefore ? = \sqrt{1024} = 32$$

$$368. \quad 3; 5030.05 \div 42.93 + 24.49 \% \text{ of } 5049.93 \div 100 = ?$$

$$\text{or } ? = 5030 \div 43 + 24.5 \% \text{ of } 5050 \div 100$$

$$\text{or, } ? = 116.9764 + 1237.25 \div 100$$

$$117 + 13 \approx 130$$

$$\therefore ? = 130$$

$$369. \quad 2; 52920 \div 3214 \times 514 + 5232 = ?$$

$$\text{or } ? = 16.46 \times 514 + 5232$$

50

$$= 8460.44 + 5232 = 13692.44 \approx 13695$$

$$370. 1; \sqrt[3]{6850} \times \sqrt{12541} = ? \times 52$$

$$\text{or, } ? = \frac{19 \times 112}{52}$$

$$\therefore ? = 40.89 \approx 41$$

$$371. 2; \frac{13.2 \times 142}{100} - \frac{23.9 \times 56}{100} = \frac{24 \times ?}{100}$$

$$\text{or, } 13.2 \times 1.42 - 23.9 \times 0.56 = \frac{24 \times ?}{100}$$

$$\text{or, } \frac{24 \times ?}{100} = 18.744 - 13.104$$

$$? = \frac{5.64 \times 100}{24} = \frac{564}{24} = 23.5$$

$$372. 3; (47.2)^2 + (52.6)^2 - (23.1)^2 = ? + 2142.69$$

$$? = 2227.89 + 2766.76 - 5336.1 - 2142.69 = 2318.30$$

$$373. 4; ? = \sqrt{11449} \times \sqrt{16641} \times \sqrt[3]{35937} \div 9 + 2033$$

$$\text{or, } ? = \frac{107 \times 129 \times 33}{9} + 2033$$

$$= 50611 + 2033 = 52644$$

$$374. 5; 4\frac{19}{32} \times 3\frac{1}{21} \times 2\frac{5}{8} = ? + 15\frac{1}{2}$$

$$\text{or, } ? = \frac{147}{32} \times \frac{64}{21} \times \frac{21}{8} - \frac{31}{2}$$

$$= \frac{147}{4} - \frac{31}{2} = \frac{85}{4} = 21\frac{1}{4} = 21.25$$

$$375. 1; \frac{? \times 840}{100} = \frac{7}{13} \times \frac{100}{300} \times \frac{18.75}{100} \times 6240$$

$$\text{or, } \frac{? \times 840}{100} = \frac{7}{13} \times \frac{1}{3} \times \frac{3}{16} \times 6240 = 210$$

$$\therefore ? = \frac{210 \times 100}{840} = 25$$

$$376. 2; (?)^3 = \sqrt{6398.99} \div \sqrt[3]{4099.99} \times 24.89$$

$$\text{or, } (?)^3 = 80 \div \sqrt{16 \times 16 \times 16} \times 25 \quad (\because \sqrt{4100} \approx \sqrt{4096})$$

$$\text{or, } (?)^3 = 80 \div 16 \times 25$$

$$\text{or, } (?)^3 = 125 = 5^3$$

$$\therefore ? = 5$$

$$377. 4; (?)^2 = \left(\frac{88 \times 7160}{100} - \frac{69 \times 8940}{100} \right) \times 6$$

$$= (88 \times 71.60 - 69 \times 89.40) \times 6$$

$$= (6300 - 6168) \times 6$$

$$= 132 \times 6 = 792$$

$$\therefore ? = \sqrt{792} = 28.14 \approx 28$$

$$378. 2; \frac{40 \times ?}{100} = \frac{449 \times 346}{64}$$

$$\text{or, } ? = \frac{449 \times 346 \times 100}{64 \times 40} = 6068.5 \approx 6065$$

$$379. 4; 37.9\% \text{ of } 638.05 + 25.25\% \text{ of } 4401.9 = ?$$

$$\text{or, } ? = 38\% \text{ of } 638 + 25\% \text{ of } 4402 = 242.44 + 1100.5 = 1342.94$$

$$\therefore ? = 1345$$

$$380. 4; \frac{? \times 20}{100} = 834 - 543 - 109 = 182$$

$$\therefore ? = 182 \times 5 = 910$$

$$381. 4; 370881 + 50 - 494 \times 3$$

$$= 370881 + 50 - 1482 = 369449$$

$$382. 3; ? = \sqrt{17161} \times 18 + 92 \times 94 + \frac{2}{5} \text{ of } 125$$

$$= 131 \times 18 + 8648 + 50$$

$$= 2358 + 8648 + 50 = 11056$$

$$383. 3; ?\% \text{ of } 650 + 40\% \text{ of } 525 = 275$$

$$\text{or, } \frac{?}{100} \times 650 + 210 = 275$$

$$\text{or, } 6.5 \times ? = 275 - 210 = 65$$

$$\therefore ? = \frac{650}{65} = 10$$

$$384. 3; ? = \sqrt[3]{12167} \times \sqrt{11881} + 70\% \text{ of } 6210$$

$$= 23 \times 109 + \frac{70}{100} \times 6210$$

$$= 2507 + 4347 = 6854$$

$$385. 4;$$

$$? = \sqrt[3]{35937} \times \sqrt[3]{1331} \div \sqrt{121} + 60\% \text{ of } 1295$$

$$= 33 \times 11 \div 11 + \frac{3}{5} \times 1295$$

$$= 33 + 777 = 810$$

$$386. 3; ? = \sqrt{795664} \times \sqrt[3]{5832} - \sqrt{676.9932}$$

$$= 892 \times 18 - 26$$

$$= 16056 - 26 = 16030$$

$$387. 4; ? = 1325\sqrt{16.0123} + 25\% \text{ of } 161.043 - \frac{3}{4} \text{ of } 84.31$$

$$\approx 1325 \times 4 + \frac{1}{4} \times 160 - \frac{3}{4} \times 84$$

$$= 5300 + 40 - 63$$

$$= 5300 - 23 = 5277 \approx 5280$$

$$388. 1; ? = 0.5\% \times 449.93 \times 0.8\% \text{ of } 674$$

$$= \frac{1}{2} \times 4.5 \times 0.8 \times 6.75 = 2.25 \times 54 = 121.5 \approx 122$$

$$389. 4; ? = \frac{2}{5} \text{ of } \sqrt[3]{91125} \times \sqrt{324.0013} \div \frac{2}{3} \text{ of } 44.9934$$

$$\approx \frac{2}{5} \times 45 \times 18 \div \frac{2}{5} \text{ of } 45$$

$$= \frac{2}{5} \times 45 \times 18 \div 18 = 18$$

$$390. 2; ? = 85\% \text{ of } 225 + 43.012 \times 42.9873 - 40\% \text{ of } 149.9$$

$$\approx \frac{85 \times 225}{100} + 43 \times 43 - \frac{40 \times 150}{100}$$

$$= 85 \times 2.25 + 43 \times 43 - \frac{2}{5} \times 150$$

$$= 191 + 1849 - 60 = 1920$$

$$391. \quad 4; ? = ? = \frac{15}{100} \times 240 + 107 - \frac{25}{100} \times 160$$

$$= 36 + 107 - 40 = 103$$

$$392. \quad 4; ? = (64)^{4.5} \times (4096)^{3.4} \div (16)^{1.5} \times (4)^3$$

$$= (4^3)^{4.5} \times (4^6)^{3.4} \div (4^2)^{1.5} \times 4^3$$

$$= (4)^{13.5} \times (4)^{20.4} \div (4)^3 \times 4^3$$

$$= (4)^{13.5} \times (4)^{20.4-3} \times 4^3$$

$$= (4)^{33.5} + 17.4 + 3$$

$$= (4)^{33.9}$$

$$393. \quad 3; ? = (207)^2 + 20\% \text{ of } 200 \times \sqrt{1225} - 25.1\% \text{ of } 160$$

$$= 42849 + \frac{1}{5} \times 200 \times 35 - \frac{1}{4} \times 160$$

$$= 42849 + 40 \times 35 - 40 = 44209$$

$$394. \quad 4; ? = \sqrt{9216} \times \sqrt[3]{1728} - 40\% \text{ of } 1200$$

$$= 96 \times 12 - \frac{2}{5} \times 1200$$

$$= 1152 - 480 = 672$$

$$395. \quad 3; ? = \frac{2}{5} \times \frac{1}{4} \times \frac{5}{3} \times \sqrt[3]{46656} = \frac{1}{6} \times 36 = 6$$

$$396. \quad 4; ? = 33\frac{1}{3}\% \text{ of } \sqrt[3]{1728} + 12.5\% \text{ of}$$

$$161.005 \times 40\% \text{ of } 1099.97$$

$$\approx \frac{1}{3} \times 12 + \frac{1}{8} \times 160 \times \frac{2}{5} \times 1099.97$$

$$\approx 4 + 20 \times 440 = 4 + 8800 = 8804$$

$$397. \quad 4; ? = \left[(941192)^{\frac{1}{3}} - (110592)^{\frac{1}{3}} \right]^2$$

$$= (98 - 48)^2 = (50)^2 = 2500 \approx 2501$$

$$398. \quad 5; ? = 85\% \text{ of } 225 + 32.98 \times 6.003$$

$$= \frac{85}{100} \times 225 + 33 \times 6 = 191.25 + 198$$

$$= 389.25 \approx 389$$

$$399. \quad 3; 25\% \text{ of } \sqrt{4096.00139} \times \frac{2}{5} \text{ of } (35)^2 - \frac{2}{3} \text{ of } 39.01$$

$$\approx \frac{1}{4} \times 64 \times \frac{2}{5} \times 1225 - \frac{2}{3} \times 39$$

$$= 16 \times 2 \times 225 - 26 = 7840 - 26 = 7814$$

$$400. \quad 4; \frac{1585}{99} \times \frac{527}{105} + ? = \frac{9008}{99}$$

$$= \text{or, } ? = \frac{9008}{99} - \frac{317}{99} \times \frac{527}{21} = \frac{189168 - 167059}{99 \times 21}$$

$$= \frac{22109}{2079} = 10.63 \approx 11$$

$$401. \quad 2; ? = \frac{5003 \times 99 - 194661}{126}$$

$$= \frac{495297 - 194661}{126} = \frac{300636}{126} = 2386$$

$$402. \quad 4; ? = 7\sqrt{11} \times 16\sqrt{11} - 841$$

$$= 1232 - 841 = 391$$

$$403. \quad 5; ? = \frac{385}{47} \times \frac{517}{56} \times \frac{84}{11} \times \frac{9}{22} - \frac{33}{5}$$

$$= \frac{385 \times 27}{44} - \frac{33}{5} - \frac{51975 - 1452}{220}$$

$$= \frac{50523}{220} = 229.65$$

$$404. \quad 3; 189 \times 68 - (86)^2 - 543 = (?)^3$$

$$\text{or, } 32852 - 7396 - 543 = (?)^3$$

$$\text{or, } ? = \sqrt[3]{4913}$$

$$= 17$$

$$405. \quad 2; ? = \frac{77.5 \times 230}{100} + \frac{75 \times 22}{100} + \frac{35 \times 140}{100}$$

$$= 178.25 + 16.5 + 49 = 243.75$$

$$406. \quad 3; (?)^2 = \sqrt[3]{59322} \times (428 \div 11)$$

$$= \sqrt[3]{39 \times 39 \times 39} \times 38.90$$

$$= 39 \times 39 = (39)^2 \quad (\because 59322 \approx 59319)$$

$$\therefore ? = 39$$

$$407. \quad 3; ? = \frac{177.5 \times 2480}{100} + 63 \times 20 - 62$$

$$= 4402 + 1260 - 62 = 5600$$

$$408. \quad 1; ? = \frac{7}{16} \times 8022.66 + \frac{11}{20} \times 6822.44$$

$$= 3509.91 + 3752.34 \approx 7260$$

$$409. \quad 5; ? = \frac{97975}{545} \times \sqrt[3]{515} \quad (\because 515 \approx 512)$$

$$= 179.77 \times 8 = 180 \times 8 = 1440$$

$$410. \quad 4; ? = 290 \times 4.25 + 5 \times 334$$

$$= 1232.5 + 1670 \approx 2900$$

$$411. \quad 4;$$

$$(16)^? = (16)^{7.2} \div (16^3)^{1.6} \times (16^4)^{-1.2} \div (16^5)^{-1}$$

$$= (16)^{7.2} \div 16^{4.8} \times 16^{-4.8} \div 16^{-5}$$

$$= (16)^{7.2 - 4.8 - 4.8 + 5} = (16)^{(12.2 - 9.6)} = 16^{2.6}$$

$$\therefore ? = 2.6$$

$$412. \quad 3; \frac{6000 \times ?}{100} = 45.5 \times 11.6 + 13.5 \times 7.2$$

$$= 527.8 + 97.2 = 625$$

$$\therefore ? = \frac{625 \times 100}{6000} = 10.42\%$$

$$413. \quad 1; ? = \frac{77777}{700} + \frac{6455}{250} + \frac{3991}{26}$$

$$= \frac{11111}{100} + \frac{1291}{50} + \frac{307}{2}$$

$$= \frac{11111 + 2582 + 15350}{100}$$

$$= \frac{29043}{100} = 290.43$$

$$414. \quad 4; \sqrt{?} = \{6^{3.6} \div (6^2)^{-4.2}\}^{1/4}$$

$$= \{6^{3.6} \div 6^{-8.4}\}^{1/4} = \{6^{3.6+8.4}\}^{1/4}$$

$$= \{6^{12}\}^{1/4} = 6^3 = 216$$

$$\therefore ? = (216 \times 216) = 46656$$

$$415. \quad 3; ? = \frac{23564 \times 275 - 430100}{605}$$

$$= \frac{6480100 - 430100}{605}$$

$$= \frac{6050000}{605} = 10000 = 10^4$$

$$416. \quad 5; ? = 512.01 \times \frac{412.99}{119} = \frac{512 \times 413}{17 \times 7}$$

$$= \frac{510 \times 413}{17 \times 7} = 30 \times 59 = 1770 \approx 1775$$

$$417. \quad 4; ? = \frac{1700 \times 300}{600} - 1498 + 3745$$

$$= \frac{510000}{60} - 1498 + 3745$$

$$= 8500 - 1498 + 3745$$

$$= 12245 - 1498 = 10747 \approx 10750$$

$$418. \quad 2; ? \approx (14)^2 + (16.2)^2 + (17.25)^2 - 33$$

$$\approx 196 + 262.44 + 297.56 - 33$$

$$\approx 756 - 33 = 723 \approx 720 \text{ (approximate)}$$

$$419. \quad 3; ? \approx 1625 \times 30 + 469$$

$$= 48750 + 469 = 49219 \approx 49220$$

$$420. \quad 5; ? = \frac{8500}{375} \times 15 \approx 340$$

$$421. \quad 2; \sqrt{24} + \sqrt{96} + \sqrt{216} + \sqrt{384} = 5\sqrt{2} \times ?$$

$$\text{or, } \sqrt{6 \times 4} + \sqrt{6 \times 16} + \sqrt{6 \times 36} + \sqrt{6 \times 64} = 5\sqrt{2} \times ?$$

$$\text{or, } 2\sqrt{6} + 4\sqrt{6} + 6\sqrt{6} + 8\sqrt{6} = 5\sqrt{2} \times ?$$

$$\text{or, } \sqrt{6}(2+4+6+8) = 5\sqrt{2} \times ?$$

$$\therefore ? = \frac{20\sqrt{6}}{5\sqrt{2}} = 4\sqrt{3}$$

$$422.5; ? = 189\frac{2}{9} + 189\frac{3}{9} + 189\frac{4}{9} + 189\frac{5}{9} + 189\frac{6}{9} + 189\frac{7}{9}$$

$$= (189 \times 6) + \left(\frac{2}{9} + \frac{3}{9} + \frac{4}{9} + \frac{5}{9} + \frac{6}{9} + \frac{7}{9}\right)$$

$$= 1134 + \frac{2+3+4+5+6+7}{9} = 1134 + \frac{27}{9}$$

$$= 1134 + 3 = 1137$$

$$423. \quad 2; \sqrt{1369} \times \sqrt{1444} + \sqrt{?} = 1420$$

$$\text{or, } \sqrt{37^2} \times \sqrt{(38)^2} + \sqrt{?} = 1420$$

$$\text{or, } 37 \times 38 + \sqrt{?} = 1420$$

$$\text{or, } 1406 + \sqrt{?} = 1420$$

$$\text{or, } \sqrt{?} = 1420 - 1406 = 14$$

$$\therefore ? = 196$$

$$424. \quad 3; \sqrt{6889} + \sqrt{3721} + \sqrt{1024} - \sqrt{2401} = ?$$

$$\text{or, } ? = \sqrt{(83)^2} + \sqrt{(61)^2} + \sqrt{(32)^2} - \sqrt{(49)^2}$$

$$= 83 + 61 + 32 - 49 = 127$$

$$425. \quad 4; ? = 3001 \times 99 \div 11 - 6001 \times 8 + 401 \times 11 + (303)^2$$

$$= 3001 \times 9 - 6001 \times 8 + 401 \times 11 + (303)^2$$

$$= 27009 - 48008 + 4411 + 91809 = 75221$$

$$426. \quad 1; ? = 3976 \times \frac{38}{100} + 1024 - 8271 \times \frac{13}{100} + \frac{7}{6} \times 3400$$

$$= 1510.88 + 1024 - 1075.23 + 3966.66$$

$$= 5426.31 \approx 5427$$

$$427. \quad 3; \frac{987 \times 123}{9} = 13489$$

$$428. \quad 2; ? = \sqrt{80} \times \frac{35}{6} \times (21)^2 + 343$$

$$= \sqrt{16 \times 5} \times \frac{35}{6} \times 441 + 343$$

$$= 4\sqrt{5} \times \frac{35}{6} \times 441 + 343$$

$$= 2\sqrt{5} \times 35 \times 147 + 343$$

$$= 2 \times 2.2 \times 35 \times 147 + 343 = 22981$$

$$429. \quad 3; ? = 4(3+4+2\sqrt{12}) + 6(5+6+2\sqrt{30})$$

$$\begin{aligned}
 & -3(2+3+2\sqrt{6}) \\
 & = 4(7+2\sqrt{12})+6(11+2\sqrt{30})-3(5+2\sqrt{6}) \\
 & = 28+8\sqrt{12}+66+12\sqrt{30}-15-6\sqrt{6} \\
 & = (28+66-15)+(8\sqrt{12}+12\sqrt{30})-6\sqrt{6} \\
 & = 79+(8\sqrt{4 \times 3}+12\sqrt{30})-6\sqrt{6}
 \end{aligned}$$

$$\begin{aligned}
 & = 79+16\sqrt{3}+12\sqrt{30}-6\sqrt{6} \\
 & = 79+16 \times 1.7+12 \times 5.4-6 \times 2.4 \\
 & = 79+27.2+64.8-14.4=156.6=157
 \end{aligned}$$

$$\begin{aligned}
 430. \quad 5; \quad & \frac{331}{30} + \frac{661}{60} + \frac{704}{11} - 35.013 + 36.026 \\
 & = 11 + 11 + 64 - 1.013 = 86 - 1 \approx 85
 \end{aligned}$$

$$431. \quad 2; \quad [(3024 \div 189)^{\frac{1}{2}} + (684 \div 19)^2] = (?)^2 + 459$$

$$\text{or, } \sqrt{16} + (36)^2 = (?)^2 + 459$$

$$\text{or, } (?)^2 = \sqrt{16} + (36)^2 - 459$$

$$= 4 + 1296 - 459 = 841$$

$$\therefore ? = 29$$

$$432. \quad 3; \quad (0.0729 \div 0.1)^3 \div (0.081 \times 10)^5 \times (0.3 \times 3)^5$$

$$= (.9)^{7+3}$$

$$\text{or, } (0.729)^3 \div (0.81)^5 \times (0.9)^5 = (0.9)^{7+3}$$

$$\text{or, } (0.9)^{3 \times 3} \div (0.9)^{2 \times 5} \times (0.9)^5 = (0.9)^{7+3}$$

$$\text{or, } (0.9)^{9+5-10} = (0.9)^{7+3}$$

$$\text{or, } (0.9)^4 = (0.9)^{7+3}$$

$$\text{or, } ? + 3 = 4$$

$$\text{or, } ? = 4 - 3 = 1$$

$$433. \quad 4; \quad (204 \times 111) + (222 \times 101) - (33 \times 11) + \sqrt{4225} - \sqrt{3721} = ?$$

$$\text{or, } ? = 22644 + 22422 - 363 + 65 - 61 = 44707$$

$$434. \quad 2; \quad 9937 \div 19 \times 12029 \div 23 + 54 = ?$$

$$\text{or } ? = 523 \times 523 + 54 = 273583$$

$$435. \quad 2; \quad 1739 \div 47 + 2679 \div 57 + 3819 \div 67 + 5159 \div 77 + 6699 \div 87 + 1245 \div 83 = ?$$

$$\text{or, } ? = 37 + 47 + 57 + 67 + 77 + 15 = 300$$

$$436. \quad 1; \quad \sqrt{2645} + \sqrt{1805} + \sqrt{2205} - \sqrt{1445} = ?$$

$$\text{or } ? = \sqrt{5 \times 529} + \sqrt{5 \times 361} + \sqrt{5 \times 441} - \sqrt{5 \times 289}$$

$$= 23\sqrt{5} + 19\sqrt{5} + 21\sqrt{5} - 17\sqrt{5}$$

$$\text{or, } ? = \sqrt{5}(23+19+21-17) = 46\sqrt{5}$$

$$437. \quad 3; \quad \frac{\sqrt{8836}}{2} + \frac{(21952)^{\frac{1}{3}}}{7} = \sqrt{6241} - ?$$

$$(\because \sqrt{8836} \approx \sqrt{8835} \text{ and } \sqrt{6241} \approx \sqrt{6240})$$

$$\text{or, } \frac{94}{2} + \frac{28}{7} = 79 - ?$$

$$\text{or, } 47 + 4 = 79 - ?$$

$$\therefore ? = 79 - (47 + 4) = 28$$

$$438. \quad 2; \quad [\sqrt{5041} - \sqrt{4489}]^{\frac{1}{2}} \times 0.03 + 37 = ?$$

$$\text{or, } ? = [71 - 67]^{\frac{1}{2}} \times 0.03 + 37$$

$$= 2 \times 0.03 + 37 = 37.06 \approx 37$$

$$439. \quad 5; \quad 23\frac{11}{25} + 47\frac{22}{45} - 17\frac{2}{5} - 0.03 + 25.729 = ?$$

$$\text{or, } ? = (23 + 47 - 17) + \left(\frac{11}{25} + \frac{22}{45} - \frac{2}{5}\right) - 0.03 + 25.729$$

$$= 53 + \left(\frac{99+110-90}{225}\right) - 0.03 + 25.729$$

$$= 53 + \frac{119}{225} + 25.699$$

$$= 53 + 0.528 + 25.699 = 79.227 \approx 80$$

$$440. \quad 3; \quad (216)^{\frac{1}{3}} + (625)^{\frac{1}{4}} + (1024)^{\frac{1}{2}} - 49.57 + 23.89 = ?$$

$$\text{or, } ? = 6 + 5 + 32 - 49.57 + 23.89$$

$$= 17.32 \approx 17$$

$$441. \quad 2; \quad (?)^2 + 518 - [(7164 \div 199)^{\frac{1}{2}} + (972 \div 27)^2]$$

$$= (36)^{\frac{1}{2}} + (36)^2 = 6 + 1296 = 1302$$

$$\text{or, } (?)^2 = 1302 - 518 = 784$$

$$\therefore ? = \sqrt{784} = \pm 28$$

$$442. \quad 2 \quad ? = 6.4 \times \frac{3}{5} \times \frac{70}{100} \times 780$$

$$= \frac{6.4 \times 3 \times 14}{100} \times 780 = 2096.64$$

$$443. \quad 4; \quad (2.9)^7 \cdot 6 = (0.0841 \div 0.01)^3 \div (2.9)^2$$

$$= (8.41)^3 \div (2.9)^2 = (2.9)^{2 \times 3 \cdot 2}$$

$$= (2.9)^{6 \cdot 2} = (2.9)^4$$

$$\text{Thus, } (2.9)^7 \cdot 6 = (2.9)^4$$

$$\text{or, } ? - 6 = 4$$

$$\text{or, } ? = 6 + 4 = 10$$

$$444. \quad 3; \quad \sqrt{\frac{?}{100}} \times \sqrt{1849} \times 20 + 22.7 = 2602.7$$

$$\text{or, } \frac{\sqrt{?}}{10} \times 43 \times 20 = 2602.7 - 22.7$$

$$\text{or, } \sqrt{?} \times 86 = 2580$$

$$\text{or, } \sqrt{?} = \frac{2580}{86} = 30$$

$$\therefore ? = 30 \times 30 \Rightarrow 900$$

$$445. \quad 5; \quad (39)^2 \times 3 \div 13 + 729 + 81 = (?)^3 - 170$$

$$\text{or, } (?)^3 = 39 \times 9 + 810 + 170$$

$$= 351 + 810 + 170 = 1331$$

$$\therefore ? = \sqrt[3]{1331} = 11$$

$$446. \quad 2; \quad \sqrt{13^2 + 725 \div 25 + 27 + 259}$$

$$= \sqrt{169 + 29 + 27 + 259} = \sqrt{484} = 22$$

$$447. 2; (?)^2 \times 3^2 = \sqrt{65.61} \div 0.9 \times 81$$

$$= \frac{8.1}{0.9} \times 81 = 9 \times 81 = 3^2 \times 3^4$$

$$\text{or, } ? = \sqrt{\frac{3^2 \times 3^4}{3^2}} = \sqrt{3^4} = 3^2 = 9$$

$$448. 4; ? = (15 - 14 + 18) + \left(\frac{2}{33} - \frac{17}{66} + \frac{19}{231} \right)$$

$$= 19 + \left(\frac{28 - 119 + 38}{462} \right)$$

$$= 19 + \left(\frac{-53}{462} \right) = 18 + \left(1 - \frac{53}{462} \right)$$

$$= 18 + \left(\frac{462 - 53}{462} \right) = 18 \frac{409}{462}$$

$$449. 3; 69\% \text{ of } 730 + 409.3 + 25\% \text{ of } ? = 1923$$

$$\text{or, } \frac{69 \times 730}{100} + 409.3 + \frac{25 \times ?}{100} = 1923$$

$$\text{or } 69 \times 7.30 + 409.3 + \frac{25 \times 9}{100} = 1923$$

$$\text{or, } 503.7 + 409.3 + \frac{25 \times ?}{100} = 1923$$

$$\text{or, } \frac{25 \times ?}{100} = 1923 - 913 = 1010$$

$$\therefore ? = \frac{1010 \times 100}{25} = 4040$$

$$450. 5; (1.44)^4 \div \left(\frac{1728}{1000} \right)^3 \times (1.2)^3 = (1.2)^{? - 2}$$

$$\text{or, } (1.2)^8 \div (1.2)^9 \times (1.2)^3 = (1.2)^{? - 2}$$

$$\text{or, } (1.2)^{8 - 9 + 3} = (1.2)^{? - 2}$$

$$\text{or, } (1.2)^2 = (1.2)^{? - 2}$$

$$\text{or, } ? - 2 = 2$$

$$\text{or, } ? = 2 + 2 = 4$$

$$451. 3; ? = \frac{78 \times 810}{100} + \frac{26 \times 735}{100} - 619.29$$

$$= 631.8 + 191.1 - 619.29$$

$$= 632 + 191 - 620$$

$$= 823 - 620 = 203 \approx 204$$

$$452. 2; ? = (692)^2 + (305)^2 - (368)^2$$

$$= 478864 + 93025 - 135424$$

$$= 436465$$

$$453. 1; \sqrt[3]{6859} \div 0.189 + 23\% \text{ of } 4200 + \% \text{ of } 520 = 1555.66$$

$$\text{or, } \frac{19}{0.19} + \frac{23 \times 4200}{100} + \frac{? \times 520}{100} = 1550$$

$$\text{or, } 100 + 966 + \frac{? \times 520}{100} = 1556$$

$$\text{or, } \frac{? \times 520}{100} = 1556 - 1066 = 490$$

$$\text{or, } ? = \frac{490 \times 100}{520} = 94.23 \approx 94$$

$$454. 4; ? \times 3.75 = \frac{6780}{240} \times 35$$

$$= 28.25 \times 35 = 988.75$$

$$\therefore ? = \frac{988.75}{3.75} = 263.66 \approx 265$$

$$455. 5; ? = 13 \times 15.5 + \frac{2.29}{69} \times 4.83 + 189.25$$

$$= 201.5 + 2.3 \times 0.07 + 189.25$$

$$= 201.5 + 0.161 + 189.25$$

$$= 390.91 \approx 392$$

$$456. 2; ? = (28 - 10\sqrt{3})^{\frac{1}{2}} + (7 + 4\sqrt{3})^{\frac{1}{2}}$$

$$= (25 + 3 - 2 \times 5\sqrt{3})^{\frac{1}{2}} + (2^2 + (\sqrt{3})^2 + 2 \times 2\sqrt{3})^{\frac{1}{2}}$$

$$= (5^2 + (\sqrt{3})^2 - 2 \times 5\sqrt{3})^{\frac{1}{2}} + (2^2 + (\sqrt{3})^2 + 2 \times 2\sqrt{3})^{\frac{1}{2}}$$

$$[\because a^2 + b^2 - 2ab = (a - b)^2]$$

$$[\because a^2 + b^2 + 2ab = (a + b)^2]$$

$$= [(5 - \sqrt{3})^2]^{\frac{1}{2}} + [(2 + \sqrt{3})^2]^{\frac{1}{2}}$$

$$= 5 - \sqrt{3} + 2 + \sqrt{3} = 7$$

$$457. 3; ? = \frac{(0.99)^3 + (0.98)^3}{0.99 \times 0.99 - 0.99 \times 0.98 + 0.98 \times 0.98}$$

$$= \frac{(0.99 + 0.98) + (0.99^2 - 0.99 \times 0.98 + 0.98^2)}{0.99 \times 0.99 - 0.99 \times 0.98 + 0.98 \times 0.98}$$

$$= 0.99 + 0.98 = 1.97$$

$$458. 1; \left(\frac{64}{125} \right)^2 \times \left(\frac{4}{5} \right)^4 \times \left(\frac{16}{25} \right)^{2 \times ? + 1} = \left(\frac{256}{625} \right)^{3 \times ?}$$

$$\text{or, } \left(\frac{4}{5} \right)^{3 \times 2} \times \left(\frac{4}{5} \right)^4 \times \left(\frac{4}{5} \right)^{4 \times ? + 2} = \left(\frac{4}{5} \right)^{4 \times (3 \times ?)}$$

$$\text{or, } \left(\frac{6}{5} \right)^6 \times \left(\frac{4}{5} \right)^4 \times \left(\frac{4}{5} \right)^2 \times \left(\frac{4}{5} \right)^{4 \times ?} = \left(\frac{4}{5} \right)^{12 \times ?}$$

55

$$\text{or, } \left(\frac{4}{5}\right)^{6+4+2} = \left(\frac{4}{5}\right)^{12 \times ? - 4 \times ?}$$

$$\text{or, } \left(\frac{4}{5}\right)^{12} = \left(\frac{4}{5}\right)^{8 \times ?}$$

$$\text{or, } 12 = 8 \times ?$$

$$\text{or, } ? = \frac{12}{8} = \frac{3}{2}$$

$$459. \quad 5; ? = 189 \frac{42}{47} + 289 \frac{43}{47} + 389 \frac{44}{47} - 219 \frac{37}{47} - 125 \frac{13}{47}$$

$$= \left(189 + \frac{42}{47}\right) + \left(289 + \frac{43}{47}\right) + \left(389 + \frac{44}{47}\right) -$$

$$\left(219 + \frac{37}{47}\right) - \left(125 + \frac{13}{47}\right)$$

$$= (189 + 289 + 389 - 219 - 125)$$

$$+ \left(\frac{42}{47} + \frac{43}{47} + \frac{44}{47} - \frac{37}{47} - \frac{13}{47}\right)$$

$$= 523 + \frac{42+43+44-37-13}{47}$$

$$= 523 + \frac{79}{47} = (523+1) + \frac{32}{47} = 524 \frac{32}{47}$$

$$460. \quad 4; ? = \sqrt{9409} + \sqrt{9604} + \sqrt{9801} - \sqrt{1369} -$$

$$\sqrt{1156} - \sqrt{3721}$$

$$= 97 + 98 + 99 - 37 - 34 - 61 = 162$$

$$461. \quad 4$$

$$3969 \times 63 - \sqrt{4225} - (274625)^{\frac{1}{3}} + 35 - 38.042$$

$$- 0.981 + 0.63 = ?$$

$$= 250047 - 65 - 65 + 35 - 38 - 0.9 + 0.6$$

$$= 249912.5 \approx 249912$$

$$462. \quad 5; ? = 28.95 \times 7.26 + \frac{34}{16} - \frac{23}{6} + \frac{27}{11} - 0.34 \times 2.11 \approx$$

$$210 + 2 - 4 + 2.5 - 0.7$$

$$= 209.8 \approx 210$$

$$463. \quad 2; ? = \frac{98}{100} \times 98989 - \frac{78}{100} \times 43549 + \frac{64}{100} \times 75892$$

$$+ 34.095$$

$$= 97009 - 33968 + 48570 + 34 = 111645$$

$$464. \quad 1; 707 \times 111 + 601 \times 222 + 501 \times 333 - 51 \times 11 - 61 \times 22 - 0.39$$

$$= 78477 + 133422 + 166833 - 561 - 1342 - 0.39$$

$$= 376828.6 \approx 376829$$

$$465. \quad 1; \sqrt{79} + \sqrt{81} - \sqrt{15} + \sqrt{16} + (35.07 \times 3.21) = ? + 5.91$$

$$\text{or, } 8.9 + 9 - 3.9 + 4 + 112 = ? + 5.91$$

$$? \approx 8.9 + 9 + 4 + 112 - 3.9 - 5.91 \approx 124$$

$$466. \quad 2; ? = (531441)^{\frac{1}{3}} \div 9 \times \frac{\sqrt{4096}}{8} + \frac{\sqrt{6561}}{9} - 16$$

$$= 81 \div 9 \times \frac{64}{8} + \frac{81}{9} - 16$$

$$= 9 \times 8 + 9 - 16 = 65$$

$$467. \quad 3; ? = \sqrt{294} + \sqrt{726} + \sqrt{1176} + \sqrt{486} - \sqrt{600}$$

$$= \sqrt{6 \times 49} + \sqrt{6 \times 121} + \sqrt{6 \times 196} + \sqrt{6 \times 81} - \sqrt{6 \times 100}$$

$$= 7\sqrt{6} + 11\sqrt{6} + 14\sqrt{6} + 9\sqrt{6} - 10\sqrt{6}$$

$$= \sqrt{6}(7+11+14+9-10) = 31\sqrt{6}$$

$$468. \quad 1; ? = 27 \frac{13}{30} + 23 \frac{14}{25} + 28 \frac{12}{15} - 17 \frac{21}{45} + 0.85 - 0.37$$

$$= (27 + 23 + 28 - 17) + \left(\frac{13}{30} + \frac{14}{25} + \frac{12}{15} - \frac{21}{45}\right) + 0.48$$

$$= 61 + \frac{195 + 252 + 360 - 210}{450} + \frac{48}{100}$$

$$= 61 + \frac{597}{450} + \frac{48}{100} = 61 + \frac{1194 + 432}{900}$$

$$= 61 + \frac{1626}{900} = (61+1) + \frac{726}{900}$$

$$= 62 + \frac{121}{150} = 62 \frac{121}{150}$$

$$469. \quad 1; ? = 16^{4.2} \times 256^{2.1} \times 14^2 \times 196^{3.2}$$

$$= 16^{4.2} \times 16^{(2 \times 2.1)} \times 14^2 \times 14^{(2 \times 3.2)}$$

$$= 16^{4.2+4.2} \times 14^{2+6.4} = 16^{8.4} \times 14^{8.4}$$

$$= (16 \times 14)^{8.4} = (224)^{8.4}$$

$$470. \quad 2; ? = (474552)^{\frac{1}{3}} - (6084)^{\frac{1}{2}} + 78 - 7.8$$

$$= 78 - 78 + 78 - 7.8 = 70.2$$

$$471. \quad 3; 0.003 \times 0.9 \times 0.005 \times 0.2 + 0.008 \times 0.5 + 23.85 - 21.05$$

$$= 0.0027 \times 0.0001 + 0.0004 + 23.85 - 21.05$$

$$= 0.0000027 + 0.004 + 2.8 = 2.8040027 \approx 3$$

$$472. \quad 2; (2356.237 \times 4.5) - 1356.895 + 1124.237 - 425.231 + (35 \times 0.23)$$

$$\approx 10603 - 1357 + 1124 - 425 + 8.05$$

$$\approx 11735 - 1782 \approx 9952$$

$$473. \quad 5; ? = \sqrt{8836} \times 20 \times 4.25 + \sqrt{5041} \times 10$$

$$8.75 - \sqrt{4489} \times 5 \times 1.25$$

$$= 94 \times 85 + 71 \times 87.5 - 67 \times 6.25 = 7990 + 6212.5$$

$$- 418.75 = 14202.5 - 418.75$$

$$= 13783.75 \approx 13785$$

$$474. \quad 3; ? = 2222.1 \times 11 + 3333.1 \times 11 + 4444 \times 5555 \times 11 - 6666.1 \times 11 + 333 \times 121$$

$$= 11(2222 + 3333 + 4444 + 5555 - 6666 + 333 \times 11)$$

56

$$= 11 \times (19217 - 6666) = 11 \times 12551 = 138061$$

$$475. 1; ? = 472.05 \times 101.32 + 337 + 472 - 137 \times 0.5 \div 2$$

$$\approx 472.05 \times 101.32 + 337 + 472 - 137 \times 0.25$$

$$\approx 47672 + 809 - 34 \approx 48447$$

$$476. 2; (?)^3 = (\sqrt{7} - \sqrt{10}) + (\sqrt{5} + \sqrt{14})^2 + 28$$

$$= 7 + 10 - 2\sqrt{70} + 5 + 14 + 2\sqrt{70} + 28 = 64$$

$$\therefore ? = \sqrt[3]{64} = 4$$

$$477. 4; ? \times 2.56 = 64\% \text{ of } \sqrt{409600} \div 1.6$$

$$= \frac{64 \times 640}{100} \div 1.6 = \frac{64 \times 640}{100 \times 1.6} = 256$$

$$\therefore ? = \frac{256}{2.56} = 100$$

$$478. 3; 38.4\% \text{ of } 1450 + 78.2\% \text{ of } 240 - ?^2$$

$$= 20\% \text{ of } 77.4$$

$$\text{or, } ?^2 = \frac{28.4 \times 1450}{100} + \frac{78.2 \times 240}{100} - \frac{20 \times 77.4}{100}$$

$$= 556.8 + 187.68 - 15.48$$

$$= 744.48 - 15.48 = 729$$

$$\therefore ? = \sqrt{729} = 27$$

$$479. 4; (2.89)^4 \div (4913 \div 1000)^3 \times (0.17 \times 10)^3$$

$$= (1.7)^{2 \cdot -3}$$

$$\text{or, } (1.7)^8 \div (1.7)^{3 \times 3} \times (1.7)^3 = (1.7)^{2 \cdot -3}$$

$$\text{or, } (1.7)^8 \div (1.7)^9 \times (1.7)^3 = (1.7)^{2 \cdot -3}$$

$$\text{or, } (1.7)^{8-9+3} = (1.7)^{2 \cdot -3}$$

$$\text{or, } (1.7)^2 = (1.7)^{2 \cdot -3}$$

$$\therefore ? - 3 = 2$$

$$\text{or, } ? = 3 + 2 = 5$$

$$480. 1; \sqrt[3]{5.832} + 35\% \text{ of } 6500 - \% \text{ of } 1250 = 222.8$$

$$\text{or, } 1.8 + \frac{35 \times 6500}{100} - \frac{? \times 1250}{100} = 222.8$$

$$\text{or, } 1.8 + 2275 - 222.8 = \frac{? \times 1250}{100}$$

$$\text{or, } ? = \frac{(2276.8 - 222.8) \times 100}{1250}$$

$$= \frac{2054 \times 100}{1250} = 164.32$$

$$481. 2; ? = \frac{69 \times 1298}{100} + \frac{27 \times 729}{100} - 469$$

$$= 896 + 197 - 467 \approx 624$$

$$482. 1; ? \times 6 = 9685 \div 125 \times 14$$

$$= 77.48 \times 14 = 1084.72 \approx 1085$$

$$\therefore ? = \frac{1085}{6} = 180.83 \approx 181$$

$$483. 4; ? = (67.5)^2 - (43.2)^2 - (12.9)^2$$

$$? = 4556.25 - 1866.24 - 166.41$$

$$= 4556 - 1866 - 166 \approx 2524 \approx 2525$$

$$484. 3; ? = 169\% \text{ of } 1798.98 + 6.25\% \text{ of } 1452 - 349\% \text{ of } 749$$

$$= \frac{170 \times 1800}{100} + \frac{6.25 \times 1452}{100} - \frac{350 \times 750}{100}$$

$$= 3060 + 90.75 - 2625$$

$$= 3150.75 - 2625 \approx 525.75 \approx 528$$

$$485. 2; \frac{779}{3.5} \div \sqrt[3]{1331} + ?\% \text{ of } 650 = 185.25$$

$$\text{or, } 222.57 \div 11 + \frac{? \times 650}{100} = 185.25$$

$$\text{or, } \frac{? \times 650}{100} = 185.25 - 20.23 = 165.02$$

$$\text{or, } ? = \frac{165 \times 100}{650} = 25.38 \approx 25$$

$$486. 4; ? = \{(42875)^{\frac{1}{3}} + (46656)^{\frac{1}{3}} + 9\} \times \{(39304)^{\frac{1}{3}} + (35937)^{\frac{1}{3}} - 7\} \div \frac{(16)^2}{4}$$

$$= (35 + 36 + 9) \times (34 + 33 - 7) \div \frac{256}{4}$$

$$= (80 \times 60) \div 64 = \frac{4800}{64} = 75$$

$$487. 3; ? = 38 \frac{28}{17} + 49 \frac{19}{17} + 121 \frac{21}{17} + 234 \frac{25}{17}$$

$$- 129 \frac{22}{17} - 89 \frac{29}{17}$$

$$= (38 + 49 + 121 + 234 - 129 - 89) +$$

$$\left(\frac{28}{17} + \frac{19}{17} + \frac{21}{17} + \frac{25}{17} - \frac{22}{17} - \frac{29}{17} \right)$$

$$= 224 + \left(\frac{28+19+21+25-22-29}{17} \right)$$

$$= 224 + \frac{42}{17} = (224 + 2) + \frac{8}{17} = 226 \frac{8}{17}$$

$$488. 5; ? = 101 \times 98 + 202 \times 90 + 300 \times 101 + 400 \times 101 - 505 \times 101$$

$$= 101(98 + 180 + 300 + 400 - 505)$$

$$= 101 \times 473 = 47773$$

$$489. 2; ? = \sqrt{1225} + \sqrt{5625} - \sqrt{4761} + (2197)^{\frac{1}{3}} \times$$

$$(2744)^{\frac{1}{3}} - \sqrt{2401}$$

$$= 35 + 75 - 69 + 13 \times 14 - 49$$

$$= 35 + 75 - 69 + 182 - 49 = 174$$

57

$$\begin{aligned}
 490. \quad 1; ? &= (18)^{8.4} \times (324)^{4.2} \times (16)^4 \times (256)^{6.4} \\
 &= (18)^{8.4} \times (18)^{2 \times 4.2} \times (16)^4 \times (16)^{2 \times 6.4} \\
 &= (18)^{8.4 + 8.4} \times (16)^{4 + 12.8} \\
 &= (18)^{16.8} \times (16)^{16.8} \\
 &= (18 \times 16)^{16.8} = (288)^{16.8}
 \end{aligned}$$

$$\begin{aligned}
 491. \quad 4; ? &= 20.05 \times 13.6 + 40.2 \times 30.1 + 5.5 \times 2.2 - 10.5 \\
 &\quad \times 2 + 1111.001 - 201.002 \\
 &\approx 272 + 1210 + 12 - 21 + 1111 - 201 \\
 &= 2383 \approx 2385
 \end{aligned}$$

$$\begin{aligned}
 492. \quad 2; ? &= 13369.571 - 97215.372 + 679871.5 + 34.21 - \\
 &\quad 57918.7 - 322.67 \\
 &= 13370 + 679872 + 34 - 97215 - 57919 - 333 = \\
 &\quad 693276 - 155467 = 537809 \approx 537810
 \end{aligned}$$

$$\begin{aligned}
 493. \quad 2; \sqrt{5041} \times 35.5 + \sqrt{290} \times 3.7 - \sqrt{4489} \times \sqrt{81} \times \\
 0.001 + 37.0571 \\
 = 71 \times 35.5 + 17 \times 3.7 - 67 \times 9 \times 0.001 + 37.0571 \\
 \approx 2520.5 + 63 - 0.6 + 37 \approx 2619.4 \approx 2620
 \end{aligned}$$

$$\begin{aligned}
 494. \quad 5; ? &= 2222 \times 11.05 + 101 \times 201 + 35.079 \times 88.571 \\
 &\quad + 3434.62 - 13.82 \\
 &= 2222 \times 11 + 101 \times 201 + 35 \times 88.5 + 3434.6 - \\
 &\quad 13.8 \\
 &\approx 24442 + 20301 + 3097.5 + 3434.6 - 13.8 \\
 &= 51261.3 \approx 51261
 \end{aligned}$$

$$\begin{aligned}
 495. \quad 4; ? &= \frac{72 \times 847}{100} + \frac{3}{41} + 929 - \frac{33 \times 351}{100} + \frac{13}{37} \\
 &\quad 659 \\
 &= 612 + 68 - 116 + 232 \approx 796 = 795
 \end{aligned}$$

$$\begin{aligned}
 496. \quad 4; ? &= \frac{(12.8 \times 88 - 16.4 \times 55.5) \times 100}{20} \\
 &= (1126.4 - 910.2) \times 5 = 216.2 \times 5 = 1081
 \end{aligned}$$

$$\begin{aligned}
 497. \quad 2; \sqrt{7569} - \sqrt{1444} &= 872.2 \div ? \\
 \text{or, } 87 - 38 &= \frac{872.2}{?}
 \end{aligned}$$

$$\text{or, } ? = \frac{872.2}{49} = 17.8$$

$$498. \quad 4; (13^3)^{\frac{2}{3}} \div (13^4)^{\frac{3}{4}} \times ? = (\sqrt{13})^5$$

$$\text{or, } 13^2 \div 13^3 \times ? = (\sqrt{13})^5$$

$$\text{or, } (13)^{-1} \times ? = (\sqrt{13})^5$$

$$\text{or, } ? = 13 \times (\sqrt{13})^5 = (\sqrt{13})^7$$

$$\begin{aligned}
 499. \quad 3; ? &= \frac{12.5 \times 68544}{100} \times \frac{23 \times 33 \times 43}{7 \times 17 \times 27} \\
 &= \frac{8568 \times 23 \times 11 \times 43}{7 \times 9 \times 17} = 87032
 \end{aligned}$$

$$\begin{aligned}
 500. \quad 2; (?)^2 &= \sqrt{384 \times 864} = \sqrt{64 \times 6 \times 144 \times 6} \\
 &= \sqrt{64 \times 36 \times 144} \\
 \text{or, } (?)^2 &= 8 \times 6 \times 12 = 576 \\
 \therefore ? &= 24
 \end{aligned}$$

$$501. \quad 5; ? = \sqrt[3]{110590} = \sqrt[3]{48 \times 48 \times 48} = 48$$

$$\begin{aligned}
 502. \quad 2; ? &= (3842 \div 34) \times 3 = 113 \times 3 \\
 &= 339 \approx 340
 \end{aligned}$$

$$\begin{aligned}
 503. \quad 1; ? &= \sqrt[3]{13820} \times \sqrt{21600} \div 55.959 \\
 &\approx (24 \times 147) \div 56 = 63
 \end{aligned}$$

$$504. \quad 5; ? = \frac{104980}{648 \times 18} \approx 9$$

$$505. \quad 2; ? = 17.3 \times 17.3 \times 17.3 \approx 5177.7 = 5180$$

$$506. \quad 1; 38.5 - 5.25 \times 12 - 4 = ?$$

$$\text{or, } ? = \frac{38.5}{5.25} \times 12 - 4 = 88 - 4 = 84$$

$$\begin{aligned}
 507. \quad 5; (?)^2 + (79)^2 &= (172)^2 - (88)^2 - 8203 \\
 \text{or, } ?^2 &= (172 + 88)(172 - 88) - 8203 - (79)^2 \\
 &= 260 \times 84 - 8203 - 6241 \\
 &= 21840 - 8203 - 6241 = 7396
 \end{aligned}$$

$$\therefore ? = \sqrt{7396} = 86$$

$$508. \quad 3; ? = [(222)^2 \div 48 \times 16] \div 24$$

$$= \frac{222 \times 222}{48} \times \frac{16}{24} = 684.5$$

$$\begin{aligned}
 509. \quad 4; ? &= (52\% \text{ of } 3543) - (38\% \text{ of } 2759) \\
 &= 52 \times 35.43 - 38 \times 27.59 \\
 &= 1842.36 - 1048.42 = 793.94
 \end{aligned}$$

$$510. \quad 5; 416 \times ? \times 8 = 59904$$

$$\therefore ? = \frac{59904}{416 \times 8} = 18$$

$$511. \quad 4; (1513)^2 = ? \times 3294$$

$$\therefore ? = \frac{1513 \times 1513}{3297} = 694.95 \approx 695$$

$$512. \quad 2; ? = (8531 + 6307 + 1093) \div (501 + 724 + 396)$$

$$= \frac{15931}{1621} = 9.83 \approx 10$$

$$513. \quad 5; ? = (682\% \text{ of } 782) \div 856$$

$$= \frac{6.82 \times 782}{856} = \frac{682 \times 8}{856} = 6.23 \approx 6$$

$$514. \quad 2; ? = \sqrt{197} + \sqrt{365} = 14 + 19 = 33$$

$$515. \quad 5; ? = (54 \times 154) \div (34 \times 134) = 8316 \div 4556 \approx 1.82 \approx 2$$

$$\begin{aligned}
 516. \quad 2; 5016 \times 1001 - 333 \times 77 + 22 &= ? \times 11 \\
 \text{or, } 5021016 - 25641 + 22 &= ? \times 11
 \end{aligned}$$

$$\text{or } ? = \frac{4995397}{11} = 454127$$

58

$$517. \quad 3; ? = (13\sqrt{6} + 17\sqrt{6}) \times (12\sqrt{6} - 9\sqrt{6}) - (11)^2 + (4)^2$$

$$= \{\sqrt{6}(13+17)\} \times \{\sqrt{6}(12-9)\} - 121 + 16$$

$$= 30\sqrt{6} \times 3\sqrt{6} - 121 + 16$$

$$= (90 \times 6) - 121 + 16 = 435$$

$$518. \quad 4; ? = (7777 \div 70) + (1250 \div 25) + (972 \div 27) + 2531 - 741$$

$$= 111.1 + 50 + 36 + 1790 = 1987.1$$

$$519. \quad 4; \sqrt{30276} \times \sqrt{625} - (97)^2 + \sqrt{9604} + 4410 = ? - 2401$$

$$\text{or, } 174 \times 25 - 9409 + 98 + 4410 = (?) - 2401$$

$$\text{or, } 4350 - 9409 + 98 + 4410 + 2401 = ?$$

$$\text{or, } ? = 1850$$

$$520. \quad 5; 37\frac{18}{23} + 174\frac{19}{23} - 87\frac{15}{23} = ?$$

$$\text{or, } 37 + 174 - 87 + \left(\frac{18}{23} + \frac{19}{23} - \frac{15}{23}\right)$$

$$= 124 + \left(\frac{22}{23}\right) = 124\frac{22}{23}$$

$$521. \quad 4; ? = 79352 \div 123 \times 35 + \sqrt{78}$$

$$= 645.13 \times 35 + \sqrt{78}$$

$$= 22579.5 + 8.8 = 22588.3 \approx 22587$$

$$522. \quad 1;$$

$$? = (704.969)^{\frac{1}{3}} \times \sqrt{4489} + (3502 \div 17) - \sqrt{2704}$$

$$= 8.9 \times 67 + 206 - 52 = 750.3 \approx 750$$

$$523. \quad 3; ? = \frac{13}{17} \text{ of } 5352.541 - \frac{7}{13} \text{ of } 970.524 + \frac{12}{23} \text{ of } 11570.97$$

$$\approx \frac{13}{17} \times 5353 - \frac{7}{13} \times 971 + \frac{12}{23} \times 11571$$

$$\approx 4093 - 522 + 6037 \approx 9608$$

$$524. \quad 5; 79540 \times \frac{72}{100} - \frac{69}{100} \times 5423 + \frac{29}{100} \times 720$$

$$= 457268.8 - 3741.87 + 208.8$$

$$= 53735.8 \approx 53735$$

$$525. \quad 3; ? = 4297.52 + 1352.71 \times 464.52 + 7389 \div 221.5$$

$$\approx 4298 + 629145 + 33.3 = 633476$$

CLICK HERE TO JOIN OUR TELEGRAM GROUP



9058387343

[JOIN TELEGRAM CLICK HERE](#)

To help you in your exam preparation, **AIMBANKER TEAM** is regularly posting helpful posts, please subscribe, follow & Share ,LIKE US ON FACEBOOK PAGE OF AIMBANKER.

**JOIN US ON
facebook®**

[JOIN FACEBOOK CLICK HERE](#)



join
Whatsapp Broadcast List
+919193050403
www.aimbanker.com
<https://t.me/AIMBANKER>