

Approximate Calculations

1. 3.6% of 1350 – 15 × 19 – 15% of 260 = x

A) 128 B) 162 C) 139 D) 117 E) 108

2. 1615 ÷ 19 – 12 × 27 + 45% of 1240 = x

A) 158 B) 276 C) 319 D) 483 E) 349

3. 53² – 65% of 1380 – 948 ÷ x = 1833

A) 18 B) 4 C) 15 D) 12 E) 24

4. 2.6% of 850 – 18% of 450 – √4356 = x

A) 99 B) 56 C) 87 D) 72 E) 74

5. √x % of 350 + 52% of 450 – 23 × 17 = 130

A) 3758 B) 6724 C) 5636 D) 8542 E) 4728

6. 46² – 1638 ÷ x – 14 × 29 = 945 + 639

A) 13 B) 24 C) 23 D) 29 E) 9

7. 3.2% of x – 12 × 17 – 546 ÷ 14 = -35

A) 520 B) 410 C) 390 D) 650 E) 330

8. √(42% of 1050) + 768 ÷ 16 – 636 ÷ 12 = x

A) 19 B) 17 C) 16 D) 18 E) 13

9. (9.6% of 250 + 4.8% of 750)% of 1920 – 897 = x

A) 217 B) 206 C) 157 D) 255 E) 115

10. √1156 + √3025 + x% of 650 = 167

A) 22 B) 28 C) 16 D) 12 E) 26

NUMBER SERIES

1. 12, 8, 11, 26, 112, 878, 14055

A) 8 B) 11 C) 26 D) 112 E) 878

2. 12, 23, 40, 49, 67, 93, 135

A) 23 B) 40 C) 49 D) 67 E) 93

3. 2, 3, 4, 20, 152, 2434, 78304

A) 3 B) 4 C) 20 D) 152 E) 2434

4. 9, 5, 9, 25, 91, 424, 2282.5

A) 5 B) 9 C) 25 D) 91 E) 424

5. 3, 8, 16, 22.8, 35, 52, 75

A) 8 B) 16 C) 22.8 D) 35 E) 52

6. 4, 3, 3, 9, 31, 129, 651

A) 3 B) 3 C) 9 D) 31 E) 129

7. 3, 7, 19, 35, 74, 153, 312

A) 7 B) 19 C) 35 D) 74 E) 153

8. 4, 5, 13, 23, 59, 95, 193

A) 5 B) 13 C) 23 D) 59 E) 95

9. 3, 8, 11, 19, 27, 30, 39

A) 8 B) 11 C) 19 D) 27 E) 30

10. 8, 6, 14, 64, 440, 3960, 39489

A) 6 B) 14 C) 64 D) 440 E) 3960

BODMAS

Q76. 31% of 500 + 41% of 1100 – 50% of 790 = ?

(a) 230 (b) 221 (c) 211 (d) 255 (e) 237

Q77. 1107 ÷ 9 × 6 + 236 – 874 = ?

(a) 110 (b) 105 (c) 100 (d) 120 (e) 112

Q78. 5 ÷ 50 + 55 ÷ 5500 + 555 ÷ 555000 = ?

(a) 1.111 (b) 0.111 (c) 0.125 (d) 0.134 (e) 0.452

Q79. 276.3 + 343.8 + 545.3 – 873.4 = ?

(a) 292 (b) 397 (c) 289 (d) 277 (e) 281

Q80. 15 × 6 + 75 – 95 = ? + 40

(a) 25 (b) 35 (c) 30 (d) 40 (e) 45

Q81. 36460 + 53750 = ? + 85450

(a) 4190 (b) 4590 (c) 4760 (d) 4390 (e) 4490

Q82. 65% of 500 + ?% of 350 = 500

(a) 40 (b) 55 (c) 45 (d) 50 (e) 60

Q83. 55% of 1400 + ?2 + 282 = (12)3

(a) 28 (b) 24 (c) 26 (d) 36 (e) 16

Q.84 20% of 450 + 30% of 300 = ? × 3

1. 58 2. 68 3. 60 4. 54 5. 48

Q85. x 120% × 50% × 200 = ? × 112.5

1. 4 2. 6 3. 2 4. 5 5. 2

Q86. 190 + 170 – 219 + ? = 278

1. 112 2. 124 3. 110 4. 108 5. 137

Q87. (45 × 20 ÷ 10 + 21) ÷ 3 = ?

1. 900 2. 1369 3. 961 4. 1264 5. 1225

Q88. 3600 ÷ 72 × 4 + 574 – 378 = ?

1. 596 2. 498 3. 496 4. 898 5. 449

Q89. 0.006 × 0.02 × 0.0036 ÷ (0.06 × 0.004) = x

1. 0.018 2. 0.0018 3. 0.18 4. 1.8 5. 18

Q90. of (418 – 394) + 762 = x + 247

1. 662 2. 695 3. 643 4. 638 5. 613

Q91. $(3.03 + 7.07)2 - x = 5 \times 1.04 \times 6.8$

1. 66.65 2. 65.66 3. 61.13 4. 72.17 5. 59.15

Q92. $x \times 20 = x$

1. 940 2. 952 3. 960 4. 950 5. 980

Q93. What approximate value will come in the place of question mark (?) in the following question?

$5.997 \times 21.659 + 369.2502 = ?$

1. 500 2. 655 3. 625 4. 502 5. 575

Q94. What approximate value will come in the place of question mark (?) in the following question?

$39.093\% \text{ of } 304.806 + 51.0025\% \text{ of } 510.357 - 173.76 = ?$

1. 326 2. 192 3. 251 4. 203 5. 119

Q95. What should come in the place of question mark (?) in the following questions?

$84368 + 65466 - 72009 - 13964 = ?$

1. 61481 2. 62921 3. 63861 4. 64241 5. None of these

Q96. What should come in the place of question mark (?) in the following questions?

$? / 52 \times 9 = 324 / ?$

1. 404 2. 408 3. 410 4. 414 5. 416

Q97. What should come in the place of question mark (?) in the following questions?

$33^{7.8} \times 33^{1.2} \div 33^5 = 33 \times 33^?$

1. 2.8 2. 3 3. 3.2 4. 4 5. 6

Q98. What should come in the place of question mark (?) in the following questions?

$12\% \text{ of } 555 + 15\% \text{ of } 666 = ?$

1. 166.5 2. 167.5 3. 168.5 4. 169.5 5. None of these

Q99. What should come in the place of question mark (?) in the following questions?

$7/5 \text{ of } 58 + 3/8 \text{ of } 139.2 = ?$

1. 133.4 2. 137.2 3. 127.8 4. 131.6 5. None of these

Q100. What approximate value will come in the place of question mark (?) in the following

question? $(32.298 \times 10.025 \div 15.012 + 31.99) \div 2.26 = \sqrt{?}$

1. 784 2. 689 3. 676 4. 729 5. 900

Approximate Calculations KEY

1. Option B
2. Option C
3. Option D
4. Option E
5. Option B
6. Option A
7. Option D
8. Option C
9. Option D
10. Option D

$$9 \times 0.5 + 0.5 = 5,$$

$$5 \times 1.5 + 1.5 = 9,$$

$$9 \times 2.5 + 2.5 = 25,$$

$$25 \times 3.5 + 3.5 = 91,$$

$$91 \times 4.5 + 4.5 = 414$$

$$414 \times 5.5 + 5.5 = 414$$

5. Option B

Pattern:

$$3 \dots\dots 8 \dots\dots 14.2 \dots\dots 22.8 \dots\dots 35 \dots\dots 52 \dots\dots$$

$$\dots\dots 75$$

$$\dots\dots +5 +6.2 \quad +8.6 \dots\dots +12.2 \dots\dots +17 \dots\dots 23$$

$$\dots\dots +1.2 \quad +2.4 \quad +3.6 \quad +4.8 \quad +6.0$$

6. Option A

Pattern:

$$4 \times 0 + 1 = 1,$$

$$1 \times 1 + 2 = 3,$$

$$3 \times 2 + 3 = 9,$$

$$9 \times 3 + 4 = 31,$$

$$31 \times 4 + 5 = 129,$$

$$129 \times 5 + 6 = 651$$

7. Option B

Pattern:

$$3 \times 2 + 1 = 7,$$

$$7 \times 2 + 2 = 16,$$

$$16 \times 2 + 3 = 35,$$

$$35 \times 2 + 4 = 74,$$

$$74 \times 2 + 5 = 153$$

$$153 \times 2 + 6 = 312$$

8. Option D

Pattern:

$$4 \times 2 - 3 = 5,$$

$$5 \times 2 + 3 = 13,$$

$$13 \times 2 - 3 = 23,$$

$$23 \times 2 + 3 = 49,$$

$$49 \times 2 - 3 = 95,$$

$$95 \times 2 + 3 = 193$$

9. Option B

Pattern:

$$3 \dots\dots 8 \dots\dots 15 \dots\dots 19 \dots\dots 27 \dots\dots 30 \dots\dots 39$$

$$\dots\dots +5 +7 \quad +4 \dots\dots +8 \dots\dots +3 \dots\dots 9$$

$$\dots\dots +2 \quad -3 \quad +4 \quad -5 \quad +6$$

NUMBER SERIES KEY

Option D

Pattern:

$$12 \times 0.5 + 2 = 8$$

$$8 \times 1 + 3 = 11$$

$$11 \times 2 + 4 = 26$$

$$26 \times 4 + 5 = 109$$

$$109 \times 8 + 6 = 878$$

$$878 \times 16 + 7 = 14055$$

2. Option B

Pattern:

$$12 \times 2 - 1 = 23,$$

$$23 \times 2 - 11 = 35,$$

$$35 \times 2 - 21 = 49,$$

$$49 \times 2 - 31 = 67,$$

$$67 \times 2 - 41 = 93,$$

$$93 \times 2 - 51 = 135$$

3. Option E

Pattern:

$$2 \times 1 + 1 = 3,$$

$$3 \times 2 - 2 = 4,$$

$$4 \times 4 + 4 = 20,$$

$$20 \times 8 - 8 = 152,$$

$$152 \times 16 + 16 = 2448$$

$$152 \times 32 - 32 = 78304$$

4. Option E

Pattern:

10. Option E

Pattern:

$$8*1 - 2 = 6,$$

$$6*3 - 4 = 14,$$

$$14*5 - 6 = 64,$$

$$64*7 - 8 = 440,$$

$$440*9 - 10 = 3950$$

$$3950*10 - 11 = 39489$$

BODMAS KEY

76. Answer: C

77. Answer: C

78. Answer: B

79. Answer: A

80. Answer: C

81. Answer: C

82. Answer: D

83. Answer: C

84. Answer: 3

85. Answer: 5

86. Answer: 5

87. Answer: 2

88. Answer: 3

89. Answer: 2

90. Answer: 4

91. Answer: 1

92. Answer: 3

93. Answer: 4

94. Answer: 4

95. Answer: 3

96. Answer: 4

97. Answer: 2

98. Answer: 1

99. Answer: 1

100. Answer: 4