

NUMBER SERIES

1.267, 244, 219, 190, ?, 100

A) 135 B) 127 C) 157 D) 162 E) 153

2.265, 264, 272, 245, 309, ?

A) 149 B) 157 C) 165 D) 184 E) 122

3.0.5, 2, 7, 29, 146, ?

A) 877 B) 665 C) 787 D) 611 E) 786

4.0.5, 2, 5, 12.5, 34.25, ?

A) 113.25 B) 124.25 C) 106.25 D) 122.25 E) 102.25

5.512, ?, 256, 64, 8, 0.5

A) 348 B) 512 C) 420 D) 558 E) 396

6.57, 82, 62, 77, 67, ?

A) 79 B) 84 C) 62 D) 72 E) 69

7.3.5, 5, 12, 44, ?, 1284

A) 215 B) 127 C) 263 D) 338 E) 325

8.11, 4.5, 3, 2.5, 2.5, ?

A) 1.25 B) 3.25 C) 2.75 D) 3.5 E) 1.75

9.13, 18, 25, 36, ?, 78

A) 61 B) 78 C) 64 D) 49 E) 53

10.486, 384, 299, 231, 180, ?

A) 146 B) 122 C) 132 D) 157 E) 139

Approximate Calculations

1.634.43 + 63.34 + 6.44 + 6 + 0.63 = ?

A.723.95 B. 682.55 C. 665.26 D. 710.84 E.None

2. $\sqrt{2025} / \sqrt{729} * 55\%$ of 520 =?

A.1625 B. 1430 C. 1355 D. 1450 E. None

3.45% of 960 + 50% of 1008 = ?% of 3000

A.40.4% B. 36.5% C. 42% D. 31.2% E. None

4.1/9 of 3/5 of 4/7 of 1365=?

A.52 B. 46 C. 59 D. 43 E. None

5.15 * 12 - 450 / 18 = ? - 140

A.186 B. 295 C. 266 D. 284 E. None

6.21^{9.9} * 7^{0.1} * 3^{0.1} / (7⁴ * 3⁴) = 21?

A.6 B. 8 C. 5 D. 3 E. None

7.(15 * 0.40)⁴ / (1080 / 30)⁴ * (27 * 8)⁴ = (3 * 2)^(?+5)

A. 6 B. 5 C. 3 D. 8 E. None

8.8888 / 88 / 8 = ?

A. 10 1/2 B. 13 C. 12 5/8 D. 15 E. None

9.26% of 1200 + 19% of 2200 =? + 12% of 450

A. 592 B. 676 C. 625 D.546 E. None

10.3 1/7 + 2 3/5 + 7 1/5 - 5 3/7 - 18/35 =35/?

A. 7 B. 9 C. 12 D. 5 E. 10

BODMAS

21. 8125 ÷ 13 ÷ 2 1/2 × 102 = ?2

a) 12500 b) 25000 c) 50000 d) None of these

22. 6992 ÷ 19 - ?% of 652 = - 4196

a) 800 b) 320 c) 700 d) 210

23. 20% of 27 + 40% of 64 - ? = 0

a) 25 b) 51.20 c) 21.90 d) 35

24. (4.5 × 4.5 × 4.5 × 4.5) ÷ 225 ÷ 25 + 3³ = ?

a) 2707.29 b) 277.29 c) 27.0729 d) 277.092

25. 38.4% of 1450 + 78.2% of 240 - ?2 = 20% of 77.4

a) 27 b) 26 c) 23 d) None of these

26. (2.89)⁴ ÷ (4913 ÷ 1000)³ × (0.17 × 10)³ = (1.7)^{?-3}

a) 6 b) 10 c) 3 d) 5

27. 47.008 - 20.998 + $\sqrt{256.01}$ = ? * 2.0001

a) 21 b) 38 c) 40 d) 10

28. 1.980*4.059 + 14.0101*3.009 - 4.003*6.001 = ?

a) 45 b) 26 c) 21 d) 36

29. 396÷33×15+670 = ?(33) + 454

a) 80 b) 341 c) 12 d) None of these

30. 221 ÷ 23.6 × 94.4 ÷ 169 ÷ 17 = ? ÷ 91

a) 241 b) 10 c) 21 d) 28

31. 146% of 950 - 46% of 1850 = 8 × ?

a) 67 b) 21 c) 89 d) 213

32. (550/25) × (2232/17) × (2074/9) = ? × 22

a) 1411 b) 1311 c) 1321 d) 1421

33. 10^{7.5} × 10^{4.5} ÷ 10² = 10[?]

a) 6 b) 10 c) 8 d) 11

34. (225.3×3)^{1/2} + (981÷9)² = 7371 + ?

a) 2134 b) 5689 c) 2365 d) 4536

35. 636 × 5 ÷ 6 + 221 ÷ 17 × 13 = ? + 210

a) 143 b) 489 c) 109 d) 312

NUMBER SERIES KEY

1. Option E

Pattern:

.....-23-25.....-29.....-37.....-53
.....2.....4.....8.....16

2. Option D

Pattern:

$-1^3, +2^3, -3^3, +4^3, -5^3$

3. Option A

Pattern:

$*2 + 1, *3 + 1, *4 + 1, *5 + 1$

4. Option C

Pattern:

$*1 + 1.5, *1.5 + 2, *2 + 2.5, *2.5 + 3, *3 + 3.5$

5. Option B

Pattern:

$*1, *2, *4, *8, *16$

6. Option D

Pattern:

....+25.....-20.....+15.....-10.....+5

7. Option A

Pattern:

$*2 - 2, *3 - 3, *4 - 4, *5 - 5, *6 - 6$

8. Option B

Pattern:

$*0.5 - 1, *1 - 1.5, *1.5 - 2, *2 - 2.5, *2.5 - 3$

9. Option E

Pattern:

.....+5.....+7.....+11.....+17.....+25
.....+2.....+4.....+6.....+8

10. Option A

Pattern:

-102.....-85.....-68.....-51.....-34

Approximate Calculations KEY

1. Option D

Solution:

$$634.43 + 63.34 + 6.44 + 6 + 0.63 = x$$

$$x = 710.84.$$

2. Option B

Solution:

$$\sqrt{2025} / \sqrt{729} * 55\% \text{ of } 520 = x$$

$$45 / 9 * 286 = x$$

$$5 * 286 = x$$

$$1430.$$

3. Option D

Solution:

$$45\% \text{ of } 960 + 50\% \text{ of } 1008 = x\% \text{ of } 3000$$

$$432 + 504 = x / 100 * 3000$$

$$30x = 936$$

$$x = 31.2\%$$

4. Option A

Solution:

$$1/9 * 3/5 * 4/7 * 1365 = x$$

$$4 * 13 = x$$

$$x = 52.$$

5. Option B

Solution:

$$15 * 12 - 450 / 18 = x - 140$$

$$180 - 25 + 140 = x$$

$$x = 295.$$

6. Option A

Solution:

$$21^{9.9} * 7^{0.1} * 3^{0.1} / (7^4 * 3^4) = 21^x$$

$$21^{9.9} * 21^{0.1} / 21^4 = 21^x$$

$$x = 9.9 + 0.1 - 4$$

$$x = 6.$$

7. Option C

Solution:

$$(15 * 0.40)^4 / (1080 / 30)^4 * (27 * 8)^4 = (3 * 2)^{(x+5)}$$

$$(6^4 / 36^4) * 6^{12} = 6^{(x+5)}$$

$$4 + 12 - 8 = x + 5$$

$$8 = x + 5$$

$$x = 3.$$

8. Option C

Solution:

$$8888 / 88 / 8 = x$$

$$8888 / (88 * 8) = x$$

$$x = 101/8$$

$$= 12 \frac{5}{8}.$$

9. Option B

Solution:

$$26\% \text{ of } 1200 + 19\% \text{ of } 2200 = x + 12\% \text{ of } 450$$

$$312 + 418 = x + 54$$

$$x = 676.$$

10. Option D

Solution:

$$3 \frac{1}{7} + 2 \frac{3}{5} + 7 \frac{1}{5} - 5 \frac{3}{7} - \frac{18}{35} = \frac{35}{x}$$

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

$$\frac{(110 + 91 + 252 - 190 - 18)}{35} = \frac{35}{x}$$

$$\frac{245}{35} = \frac{35}{x}$$

$$x = 5.$$

BODMAS KEY

ANSWER (21-35)

21. Correct Answer: option b

22. Correct Answer: option c

23. Correct Answer: option b

24. Correct Answer: option c

25. Correct Answer: option a

26. Correct Answer: option d

27. Correct Answer: option a

28. Correct Answer: option b

29. Correct Answer: option c

30. Correct Answer: option d

31. Correct Answer: option a

32. Correct Answer: option b

33. Correct Answer: option b

34. Correct Answer: option d

35. Correct Answer: option b