

NUMBER SERIES

Directions: The following series are based on a specific pattern.
Find the next number following the pattern.

1.9, 6.5, 8.5, 19, 78, ?

A) 782 B) 372 C) 278 D) 534 E) 626

2.3, 4, 10, 33, 136, ?

A) 685 B) 378 C) 652 D) 544 E) 428

3.4, 7, 12, 21, 38, ?

A) 65 B) 71 C) 87 D) 82 E) 76

4.19.2, 22.6, 15.8, 29.4, 2.2, ?

A) 59.4 B) 54.2 C) 49.2 D) 45.8 E) 56.6

5.106, 110, 94, 130, ?, 166

A) 54 B) 34 C) 66 D) 48 E) 42

6.6, 4, 6, 16, 62, ?

A) 308 B) 276 C) 198 D) 236 E) 354

7.18, 21, 16, 25, 10, ?

A) 47 B) 45 C) 29 D) 38 E) 33

8.14, 13, 24, 69, ?, 1355

A) 266 B) 309 C) 354 D) 272 E) 239

9.10, 4, 3, 5, 19, ?

A) 102 B) 151 C) 98 D) 91 E) 126

10.35, 36, 27, 52, 3, ?

A) 72 B) 63 C) 57 D) 84 E) 76

BODMAS

Directions (Q. 21-50): What value should come in place of questions (?) in the following equations ?

21. $4200 - 35 \times 2242 \div 59 = ? \times 14$

(A) 202 (B) 205

(C) 208 (D) 210

(E) Other then these options

22. $49.445 - 26.121 - 8.867 - 0.908 = ?$

(A) 13.594 (B) 11.528

(C) 10.118 (D) 14.264

(E) Other then these option

23. $1224 \times ? = (408)^2$

(A) 102 (B) 106

(C) 114 (D) 128

(E) Other then these options

24. $\sqrt{\sqrt{42849}} + \sqrt{\sqrt{54756}} = ?$

(A) 23 (B) 441

(C) 313 (D) 205

(E) Other then these options

25. $88\% \text{ of } 1850 + 35\% \text{ of } 2400 = ? + 758$

(A) 1710 (B) 1850

(C) 1620 (D) 1580

(E) Other then these options

26. $\frac{(23.65)^2 - (48.35)^2}{0.9} = ?$

(A) -1976 (B) -1864

(C) -1724 (D) -1684

(E) None of these

27. $76\% \text{ of } 960 - 45\% \text{ of } 148 = ?\% \text{ of } 5525$

(A) 15 (B) 20

(C) 24 (D) 30

(E) None of these

27. $76\% \text{ of } 960 - 45\% \text{ of } 148 = ?\% \text{ of } 5525$

(A) 15 (B) 20

(C) 24 (D) 30

(E) None of these

28. $(4096)^{3.7} \div (256)^{4.3} \times (64)^5 \div (16)^{-4} = (4)^?$

(A) 22 (B) 24

(C) 26 (D) 28

(E) None of these

29. $3\frac{2}{7} \text{ of } 4\frac{4}{11} \text{ of } \frac{3}{35} \text{ of } 3080 = ?$

(A) 3864 (B) 3948

(C) 4014 (D) 4124

(E) None of these

30. $(\sqrt[5]{\sqrt[2]{38416}})^{\frac{5}{2}} = ?$

(A) 14 (B) 196

(C) 2744 (D) 38416

(E) None of these

NUMBER SERIES KEY

1. Option E

Pattern:

$$9 \times 0.5 + 2 = 6.5$$

$$6.5 \times 1 + 2 = 8.5$$

$$8.5 \times 2 + 2 = 19$$

$$19 \times 4 + 2 = 78$$

$$78 \times 8 + 2 = 626$$

2. Option A

Pattern:

$$*1 + 1, *2 + 2, *3 + 3, \dots$$

3. Option B

Pattern:

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

4. Option E

Pattern:

$$19.2 + 3.4 = 22.6$$

$$22.6 - (3.4 + 3.4) = 15.8$$

$$15.8 + (6.8 + 6.8) = 29.4$$

$$29.4 - (13.6 + 13.6) = 2.2$$

$$2.2 + (27.2 + 27.2) = 56.6$$

5. Option C

Pattern:

$$+4, -16, +36, -64, +100$$

6. Option A

Pattern:

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

7. Option E

Pattern:

$$\dots +3 \dots -5 \dots +9 \dots -15 \dots +23$$

$$\dots +2 \dots +4 \dots +6 \dots +8$$

8. Option D

Pattern:

$$*1 - 1, *2 - 2, *3 - 3, \dots$$

9. Option B

Pattern:

$$*0.5 - 1, *1 - 1, *2 - 1, *4 - 1, *8 - 1$$

10. Option D

Pattern:

$$+1, -9, +25, -49, +81$$

BODMAS KEY

ANSWER (21-30)

21(B)	22(E)	23(E)	24(E)	25(A)
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26(A)	27(E)	28(D)	29(A)	30(A)
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