

**Directions—(Q. 1–15)** What value should come in the place of question mark (?) in the following questions ?

- $3.6 + 36.6 + 3.66 + 0.36 + 3.0 = ?$   
(A) 44.22 (B) 77.22  
(C) 74.22 (D) 47.22  
(E) None of these
- $23 \times 45 \div 15 = ?$   
(A) 69 (B) 65  
(C) 63 (D) 71  
(E) None of these
- $4\frac{5}{6} + 7\frac{1}{2} - 5\frac{8}{11} = ?$   
(A)  $2\frac{10}{33}$  (B)  $6\frac{20}{33}$   
(C)  $2\frac{20}{33}$  (D)  $6\frac{10}{33}$   
(E) None of these
- $\frac{210}{14} \times \frac{17}{15} \times ? = 4046$   
(A) 202 (B) 218  
(C) 233 (D) 227  
(E) None of these
- 83% of 2350 = ?  
(A) 1509.5 (B) 1950.5  
(C) 1905.5 (D) 1590.5  
(E) None of these
- $\sqrt{1089} + 3 = (?)^2$   
(A) 5 (B) 6  
(C) 3 (D) 8  
(E) 4
- $96 + 32 \times 5 - 31 = ?$   
(A) 223 (B) 225  
(C) 229 (D) 221  
(E) None of these
- $? \div 36 = (7)^2 - 8$   
(A) 1426 (B) 1449  
(C) 1463 (D) 1476  
(E) None of these
- $\sqrt{8281} = ?$   
(A) 89 (B) 97  
(C) 93 (D) 91  
(E) 83

- $(63)^2 - (12)^2 = ?$   
(A) 3528 (B) 3852  
(C) 3582 (D) 3825  
(E) None of these
- $1\frac{4}{5} + 3\frac{3}{5} = ? - 4\frac{3}{10}$   
(A)  $9\frac{7}{10}$  (B)  $7\frac{7}{10}$   
(C)  $9\frac{3}{10}$  (D)  $7\frac{9}{10}$   
(E) None of these
- $17 \times 19 \times 4 \div ? = 161.5$   
(A) 8 (B) 6  
(C) 7 (D) 9  
(E) None of these
- $1798 \div 31 \times ? = 348$   
(A) 3 (B) 6  
(C) 4 (D) 5  
(E) None of these
- $(9.8 \times 2.3 + 4.46) \div 3 = (3)^?$   
(A) 3 (B) 9  
(C) 5 (D) 2  
(E) None of these
- 43% of 600 + ?% of 300 = 399  
(A) 45 (B) 41  
(C) 42 (D) 47  
(E) None of these
- What will be the compound interest on a sum of ₹ 7500 at 4 p.c.p.a. in 2 years ?  
(A) ₹ 618 (B) ₹ 612  
(C) ₹ 624 (D) ₹ 606  
(E) ₹ 621
- In how many different ways can the letters of the word 'CREAM' be arranged ?  
(A) 720 (B) 240  
(C) 360 (D) 504  
(E) None of these
- The circumference of a circle is 792 metres. What will be its radius ?  
(A) 120 metres (B) 133 metres  
(C) 145 metres (D) 136 metres  
(E) None of these

- Cost of 36 pens and 42 pencils is ₹ 460. What is the cost of 18 pens and 21 pencils ?  
(A) ₹ 230 (B) ₹ 203  
(C) ₹ 302 (D) ₹ 320  
(E) None of these
  - The ratio of the ages of A and B 7 years ago was 3 : 4 respectively. The ratio of their ages 9 years from now will be 7 : 8 respectively. What is B's age at present ?  
(A) 16 years (B) 19 years  
(C) 28 years (D) 23 years  
(E) None of these
  - In how many years will ₹ 4600 amount to ₹ 5428 at 3 p.c.p.a. simple interest ?  
(A) 3 (B) 5  
(C) 6 (D) 4  
(E) None of these
  - What will be the average of the following set of scores ?  
59, 84, 44, 98, 30, 40, 58  
(A) 62 (B) 66  
(C) 75 (D) 52  
(E) 59
  - The sum of three consecutive odd numbers is 1383. What is the largest number ?  
(A) 463 (B) 459  
(C) 457 (D) 461  
(E) None of these
- Directions—(Q. 24–26)** Study the information given below and answer the questions that follow :
- An article was bought for ₹ 5600. Its price was marked up by 12%. Thereafter, it was sold at a discount of 5% on the marked price.
- What was the marked price of the article ?  
(A) ₹ 6207 (B) ₹ 6242  
(C) ₹ 6292 (D) ₹ 6192  
(E) ₹ 6272



the transaction ?

- (A) 6.8% (B) 6.3%  
(C) 6.4% (D) 6.6%  
(E) 6.2%

26. What was the amount of discount given ?

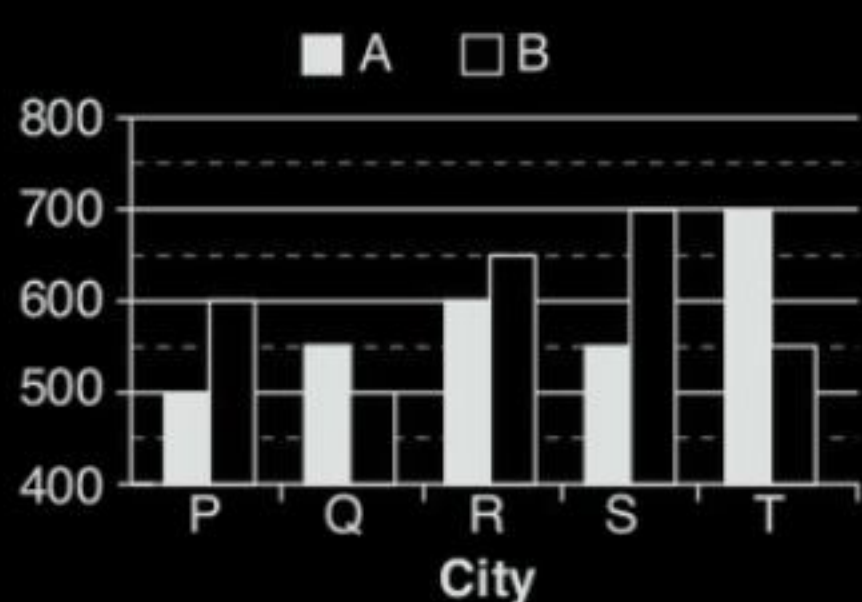
- (A) ₹ 319.6 (B) ₹ 303.6  
(C) ₹ 306.3 (D) ₹ 313.6  
(E) ₹ 316.9

27. The area of a rectangle is 1209 square metres. Its length measures 39 metres. How much is its perimeter ?

- (A) 122 metres (B) 134 metres  
(C) 148 metres (D) 144 metres  
(E) None of these

**Directions—**(Q. 28–32) Study the following graph carefully and answer the questions that follow :

**The graph given below represents the number of users of two broadband services A and B across 5 cities P, Q, R, S and T.**



28. What is the total number of users of brand B across all five cities together ?

- (A) 2700 (B) 3000  
(C) 3100 (D) 2900  
(E) 3200

29. The number of users of brand A in city T is what per cent of the number of users of brand B in city Q ?

- (A) 150 (B) 110  
(C) 140 (D) 160  
(E) 120

30. What is the average number of users of brand A across all five cities together ?

- (A) 560 (B) 570  
(C) 580 (D) 590  
(E) 550

31. What is the difference between the total number of users of Brand A and B together in city R

brand A and B together in city P ?

- (A) 170 (B) 140  
(C) 130 (D) 150  
(E) 160

32. What is the respective ratio of the number of users of brand A in city P to the number of users of brand B in city S ?

- (A) 5 : 7 (B) 4 : 7  
(C) 2 : 5 (D) 3 : 4  
(E) 5 : 6

33. 21 articles were bought for ₹ 6531 and sold for ₹ 9954. How much was the **approximate** profit percentage per article ?

- (A) 56% (B) 43%  
(C) 52% (D) 49%  
(E) 61%

34. A and B together can complete a particular task in 8 days. If B alone can complete the same task in 10 days, how many days will A take to complete the task if he works alone ?

- (A) 28 (B) 36  
(C) 40 (D) 32  
(E) None of these

35. The cost price of an article is ₹ 1700. If it was sold at a price of ₹ 2006, what was the percentage profit on the transaction ?

- (A) 18 (B) 12  
(C) 10 (D) 15  
(E) 20

**Directions—**(Q. 36–40) What should come in place of the question mark (?) in the following number series ?

36. 1 1 2 6 ? 120

- (A) 24 (B) 60  
(C) 100 (D) 30  
(E) None of these

37. 7 8 16 43 ? 232

- (A) 204 (B) 107  
(C) 119 (D) 89  
(E) None of these

38. 4 13 17 ? 30 39

- (A) 29 (B) 21  
(C) 26 (D) 19  
(E) None of these

39. 982 977 952 827 822 ?

- (A) 779 (B) 817  
(C) 789 (D) 697  
(E) None of these