

Q. 1-24. What should come in place of the question mark (?) in the following questions?

1.  $2827 + 3285 + 5025 = ?$

- (1) 10137 (2) 11137 (3) 10187

(4) 11257 (5) None of these

2.  $2860 - 1320 - 1259 = ?$

- (1) 271 (2) 251 (3) 261

(4) 281 (5) None of these

3.  $539 \times 627 = ?$

- (1) 330953 (2) 337953 (3) 338953

(4) 327953 (5) None of these

4.  $754 \div 26 = ?$

- (1) 29 (2) 28 (3) 27

(4) 26 (5) None of these

5.  $876.23 + 729.49 = ?$

- (1) 1600.72 (2) 1505.22 (3) 1605.72

(4) 1402.22 (5) None of these

6.  $436.729 - 211.116 - 107.102 = ?$

- (1) 108.411 (2) 218.501 (3) 117.412

(4) 118.511 (5) None of these

7.  $6.5 \times 7.5 \times 8.5 = ?$

- (1) 414.375 (2) 415.375 (3) 413.475

(4) 414.015 (5) None of these

8.  $\frac{350 \times 25}{8 \times 2.5} = ?$

- (1) 437.5 (2) 8750 (3) 1093.75

(4) 364.5 (5) None of these

9.  $287.35 + 398.69 = 395.02 + ?$

- (1) 292.02 (2) 291.02 (3) 293.02

(4) 290.62 (5) None of these

10.  $5 \times ? = 23.5$

- (1) 4.8 (2) 4.7 (3) 4.85

(4) 4.65 (5) None of these

11.  $1012 + 1084 = ? \times 25$

- (1) 84.84 (2) 82.84 (3) 83.84

(4) 82.74 (5) None of these

12.  $628 \div ? = 125.6$

- (1) 5 (2) 3 (3) 4.8

(4) 2.5 (5) None of these

13.  $? \times 19 = 4750$

- (1) 25 (2) 2500 (3) 270

(4) 250 (5) None of these

14.  $\frac{15 \times 15 \times 15}{5 \times 3 \times 2} = ?$

- (1) 15 (2) 60 (3) 225

(4) 112.5 (5) None of these

15.  $125 + 265 \times 9 = ?$

- (1) 2510 (2) 3510 (3) 399

(4) 298.125 (5) None of these

16.  $361 \div 19 + 11 = ?$

- (1) 20 (2) 29 (3) 27

(4) 31 (5) None of these

17.  $\frac{2}{5}$  of  $350 + 30\%$  of  $250 = ?$

- (1) 115 (2) 215 (3) 225

(4) 125 (5) None of these

18.  $\frac{4}{5}$  of  $460 + \frac{3}{4}$  of  $220 = ?$

- (1) 530 (2) 533 (3) 532

(4) 534 (5) None of these

19.  $\frac{2}{5} + \frac{3}{13} + \frac{4}{13} = ?$

- (1)  $\frac{61}{65}$  (2)  $\frac{9}{13}$  (3)  $\frac{9}{31}$

(4)  $\frac{31}{61}$  (5) None of these

20.  $65 + \sqrt{7} = 83$

- (1) 334 (2) 224 (3) 324

(4) 254 (5) None of these

21.  $\sqrt{225} + \sqrt{256} = ?$

- (1) 15 (2) 16 (3) 240

(4) 41 (5) None of these

22.  $\sqrt{7} - 44 = 25$

- (1) 4671 (2) 4771 (3) 1100

(4) 2200 (5) None of these

23.  $\frac{(16)^2 + 152 \div 4}{15} = ?$

- (1) 18.6 (2) 18.5 (3) 19.6

(4) 19.7 (5) None of these

24.  $13\frac{3}{4} + 16\frac{1}{4} + 7\frac{1}{2} = ?$

- (1) 35 (2) 25 (3)  $30\frac{1}{2}$

(4)  $35\frac{1}{2}$  (5) None of these

25. In the following series a wrong number is

given. Find out the one.

- 15 31 46 63 79 95  
(1) 15 (2) 31 (3) 46  
(4) 63 (5) 79

**26.** The sum of three consecutive integers is 30. Which of the following is the largest among the three?

- (1) 12 (2) 13 (3) 14  
(4) 10 (5) None of these

**27.** Each student of a class of 45 students has to be given 2 pens and 3 pencils. If the price of a pencil is Re 1 and that of a pen is Rs 4, then what will be the total price of the pens and pencils for the whole class?

- (1) Rs 485 (2) Rs 490 (3) Rs 495  
(4) Rs 395 (5) None of these

**28.** Ram mixes 15 kg of sugar purchased at the rate of Rs 8.00 per kg with 25 kg of sugar purchased at the rate of Rs 10.00 per kg. At what rate per kg should Ram sell the mixture to get a profit of Rs 3 per kg?

- (1) Rs 11.00 (2) Rs 11.25 (3) Rs 12.25  
(4) Rs 12.50 (5) None of these

**29.** When the present age of mother is added to the present age of the daughter, the total is 40 years. What will be their total age in years after 5 years?

- (1) 45 (2) 50 (3) 40  
(4) 55 (5) None of these

**30.** In a library 30% books are in English, 50% books are in Hindi and the remaining 500 are in other languages. What is the total number of books in the library?

- (1) 2700 (2) 2750 (3) 2555  
(4) 2500 (5) None of these

**31.** The average age of a brother and sister was 35 years 5 years ago. What will be their average age at present?

- (1) 37.5 (2) 42 (3) 80  
(4) 40.5 (5) None of these

**32.** What will be the cost of 9 VCD sets if 5 such sets cost Rs 15,500?

- (1) Rs 26,800 (2) Rs 27,800 (3) Rs 27,900  
(4) Rs 27,500 (5) None of these

**33.** Which is the highest of the following fractions?

- (1)  $\frac{2}{7}$  (2)  $\frac{3}{5}$  (3)  $\frac{5}{8}$   
(4)  $\frac{7}{9}$  (5)  $\frac{2}{3}$

**34.** If the difference between a number and  $\frac{1}{5}$  of it is 24, then what is the number?

- (1) 34 (2) 33 (3) 40  
(4) 28 (5) None of these

**35.** 5 tables and 6 chairs cost Rs 2,500 and 3 tables and 2 chairs cost Rs 1,300. What is the cost of one table and one chair together?

- (1) Rs 845 (2) Rs 475 (3) Rs 755  
(4) Rs 635 (5) None of these

**36.** Ram's present age is one-sixth of his father's present age. If the difference between their present ages is 35 years, what is his father's present age?

- (1) 32 years (2) 42 years (3) 52 years  
(4) 44 years (5) None of these

**37.** Rani bought a piece of cloth for Rs 950 and spent Rs 300 on designing it. At what price should she sell it to make 30% profit?

- (1) Rs 1,650 (2) Rs 1,550 (3) Rs 1,525  
(4) Rs 1,625 (5) None of these

**38.** The ratio of the length and breadth of a rectangular plot is 4 : 3 respectively. The perimeter of the plot is 28 metres. What is the length of the plot in metres?

- (1) 20 (2) 12 (3) 16  
(4) 14 (5) None of these

**39.** In a class 20% students failed, 60% students scored average marks and the remaining students scored above average marks. How many students are there in the class?

- (1) 25 (2) 20 (3) 30  
(4) Cannot be determined  
(5) None of these

**40.** The ratio of length and breadth of a rectangle is 5 : 2 respectively. The respective ratio of its perimeter and area is 1 : 3 (irrespective of the unit). What is the length of the rectangle?

- (1) 27 units (2) 32 units (3) 21 units  
(4) Cannot be determined  
(5) None of these

**41.** In a garden, the ratio of the number of coconut trees to that of mango trees is 5 : 6 respectively, If the total number of trees is 121, then how many coconut trees are there in the garden?

- (1) 50 (2) 45 (3) 56  
(4) 55 (5) None of these

**42.** Price of 250 gms of mangoes is Rs 7.50. What is the price of 5 kgs of mangoes?

- (1) Rs 120 (2) Rs 135 (3) Rs 150  
(4) Rs 145 (5) None of these

**43.** A series of numbers is given below. Which number should come in place of the question mark (?) ?  
6 36 216 1296 ?

- (1) 1596 (2) 7016 (3) 7676  
(4) 8776 (5) None of these

**44.** The average age of Ram, Hari and Gopal is 42 years. If their ages are in the proportion of 2 : 3 : 4 respectively, what is the age of Hari in years?

- (1) 28 (2) 42 (3) 56  
(4) 14 (5) None of these

**45.** The ratio of girls and boys in a school is 3 : 7. The number of boys is more by 400 than that of girls. What is the number of boys in the school?

- (1) 300 (2) 700 (3) 100  
(4) 500 (5) None of these

46. An apple costs Rs 1.75 and an orange costs Rs 1.50. What will be the cost of 3 dozens of apples and 2 dozens of oranges?

- (1) Rs 99      (2) Rs 63      (3) Rs 36  
(4) Rs 100      (5) None of these

47. The sum of 3 consecutive even numbers is 198. Which of the following will be the smallest number among them?

- (1) 42      (2) 38      (3) 32  
(4) 72      (5) None of these

48.  $\frac{12}{?} = \frac{?}{27}$

- (1) 162      (2) 164      (3) 18  
(4) 16      (5) None of these

49. 15 persons completed a job in 7 days. How many days will 10 persons take to complete the job?

- (1) 10      (2)  $11\frac{1}{2}$       (3)  $9\frac{1}{2}$

- (4)  $10\frac{1}{2}$       (5) None of these

50. Two-third of half of a number is 18. What is one third of that number?

- (1) 18      (2) 16      (3) 19  
(4) 17      (5) None of these

**ANSWERS AND EXPLANATIONS**

- |                |         |         |         |
|----------------|---------|---------|---------|
| 1. (2)         | 2. (4)  | 3. (2)  | 4. (1)  |
| 5. (3)         | 6. (4)  | 7. (1)  | 8. (1)  |
| 9. (2)         | 10. (2) | 11. (3) | 12. (1) |
| 13. (4)        | 14. (4) | 15. (1) |         |
| 16. (5) Ans 30 | 17. (2) | 18. (2) |         |

19. (1)

20. (3)

21. (5) Ans 31

22. (5) Ans 4761

23. (3)

24. (5) Ans  $37\frac{1}{2}$

25. (3) 15, 31, 46, 63, 79, 95

$15 \times 2 + 1 = 31$ ,  $15 \times 3 + 2 = 47$ ,

$15 \times 4 + 3 = 63$ ,  $15 \times 5 + 4 = 79$ ,

$15 \times 6 + 5 = 95$

46 is wrong, it should be 47.

26. (5)  $x + x + 1 + x + 2 = 30 \Rightarrow x = 9$

Largest =  $x + 2 = 11$

27. (3)  $45 (2 \times 4 + 3 \times 1) = 495$

28. (3)  $S.P./kg = \frac{15 \times 8 + 25 \times 10 + 3(15 + 25)}{15 + 25}$

= Rs 12.25

29. (2)  $40 + 5 + 5 = 50$  years

30. (4)  $[100 - (30 + 50)]\%$  of  $x = 500 \Rightarrow x = 2500$

31. (5)  $35 + 5 = 40$

or  $\frac{35 \times 2 + 5 + 5}{2} = 40$

32. (3)  $15500 \times \frac{9}{5} = 27900$

33. (4)

34. (5)  $x - \frac{x}{5} = 24 \Rightarrow x = 30$

35. (2)  $5x + 6y = 2500$  ( $x = \text{Cost of a table}$   
 $3x + 2y = 1300$  ( $y = \text{Cost of a chair}$ )

Solving the equations, we get  $x = 350$ ,  
 $y = 125$ ,  $x + y = 475$

36. (2) Let father's present age be  $x$  years

$\therefore$  Ram's present age =  $\frac{x}{6}$  years

A.T.S.  $x - \frac{x}{6} = 35 \Rightarrow x = 42$  years

37. (4)  $S.P. = \frac{C.P. \times (100 + P\%)}{100}$   
 $= \frac{(950 + 300) \times (100 + 30)}{100}$   
 $= \text{Rs } 1625$

38. (5)  $2(4x + 3x) = 28 \Rightarrow x = 2$

$\therefore$  Length =  $4x = 8m$

39. (4)

40. (3)  $\frac{P}{A} = \frac{2(L + B)}{L \times B} = \frac{2(5x + 2x)}{5x \times 2x} = \frac{1}{3}$   
 $\Rightarrow x = \frac{21}{5}$

$\therefore$  L. =  $5x = 21$  units

41. (4)  $5x + 6x = 121 \Rightarrow x = 11$

Coconut trees = 55

42. (3)  $7.50 \times 5 \times \frac{1000}{250} = \text{Rs } 150$

43. (5) 6, 36, 216, 1296

$\therefore$  The series is  $6^1, 6^2, 6^3, 6^4$

$\therefore$  Next term =  $6^5 = 7776$

44. (2)  $2x + 3x + 4x = 3 \times 42 \Rightarrow x = 14$

Hari's age =  $3x = 42$  years

45. (2)  $7x - 3x = 400 \Rightarrow x = 100$

$\therefore$  No. of boys =  $7x = 700$

46. (1) Cost =  $(3 \times 12) \times 1.75 + 2 \times 12 \times 1.50$   
 $= \text{Rs } 99$

47. (5)  $x + (x + 2) + (x + 4) = 198 \Rightarrow x = 64$

48. (3)  $x = \sqrt{12 \times 27} = 18$

49. (4) No. of days =  $\frac{15 \times 7}{10} = 10\frac{1}{2}$

50. (1)  $\frac{2}{3} \times \frac{1}{2} \times x = 18 \Rightarrow \frac{x}{3} = 18$