

RATIO AND PROPORTION ASSIGNMENT

1. If the ratio of two numbers is 3:5 and their sum is 64, the numbers are:

- A) 24, 40 B) 30, 34
C) 20, 44 D) 18, 46

2. Divide ₹560 in the ratio 3:5.

- A) 210, 350 B) 200, 360
C) 180, 380 D) 240, 320

3. If $a:b = 4:7$ and $b:c = 3:5$, then $a:b:c =$

- A) 4:7:5 B) 12:21:35
C) 12:21:15 D) 4:3:5

4. The fourth proportional to 2, 4, 8 is:

- A) 12 B) 14
C) 16 D) 18

5. If $x:y = 5:9$ and $y:z = 3:7$, find $x:y:z$

- A) 5:9:7 B) 15:27:63
C) 15:27:21 D) 5:3:7

6. The ratio of present ages of A and B is 5:6. After 10 years it becomes 7:8. Find present ages.

- A) 25, 30 B) 20, 24
C) 30, 36 D) 15, 18

7. If 12 men can do a work in 10 days, how many men are needed to do it in 6 days?

- A) 18 B) 20
C) 22 D) 24

8. Ratio of boys to girls is 7:5. If total students = 60, number of girls =

- A) 20 B) 25
C) 30 D) 35

9. If $a/b = 3/4$, then $(a + b)/b =$

- A) $5/4$ B) $7/4$
C) $3/7$ D) $4/7$

10. Two numbers are in ratio 2:3. If 4 is added to both, ratio becomes 3:4. Find numbers.

- A) 8, 12 B) 10, 15
C) 6, 9 D) 12, 18

11. If $8:x = 12:18$, find x

- A) 10 B) 12
C) 14 D) 16

12. Ratio of income of A and B is 3:4 and their expenses are 2:3. If both save ₹2000, find A's income.

- A) 6000 B) 8000
C) 9000 D) 12000

13. If $a:b = 2:5$, then $b:a =$

- A) 2:5 B) 5:2
C) 3:2 D) 5:3

14. The mean proportional between 9 and 16 is:

- A) 10 B) 11
C) 12 D) 13

15. If 5 workers complete a job in 12 days, how many days will 15 workers take?

- A) 3 B) 4
C) 5 D) 6

16. Ratio of two numbers is 7:11 and their difference is 40. Find the larger number.

- A) 70 B) 110
C) 120 D) 140

17. If $a:b:c = 2:3:4$ and sum is 45, find c

- A) 15 B) 20
C) 25 D) 30

18. If 3 pens cost ₹45, cost of 5 pens =

- A) 60 B) 65
C) 70 D) 75

19. If $x:y = 4:5$, then $(2x + y):(x + 2y) =$

- A) 13:14 B) 12:13
C) 11:12 D) 10:11

20. A sum is divided in ratio 5:7:8. If total is ₹2000, smallest share =

- A) 400 B) 500
C) 600 D) 700

21. The ratio of incomes of A, B, and C is 3:5:7 and their expenditures are in the ratio 2:3:4. If each saves ₹2000, what is A's income?

- A) ₹6000 B) ₹9000
C) ₹12000 D) ₹15000

22. If $a:b = 2:3$, $b:c = 4:5$, and $c:d = 6:7$, then $a:b:c$ is:

- A) 16:24:30:35 B) 8:12:15:21
C) 16:24:30:42 D) 8:12:20:35

23. A sum of ₹1260 is divided among A, B, and

C such that

$A:B = 2:3$ and $B:C = 4:5$. Find the share of C.

A) ₹420

B) ₹450

C) ₹480

D) ₹500

24. If $x:y = 3:4$, then find the value of

$$\frac{5x + 2y}{2x + 3y}$$

A) 23:18

B) 19:18

C) 17:18

D) 21:20

25. Two numbers are in the ratio 5:7. If 20 is subtracted from each, the ratio becomes 3:5. The larger number is:

A) 70

B) 84

C) 98

D) 112