

Q. RATIO & PROPORTION :- <1>

1. In a School the number of boys and girls are in the ratio of 4:7. If the number of boys are increased by 25% and the number of girls are increased by 15%. What will be the new ratio of number of boys to that of girls?
(a) 100:131 (b) 100:151 (c) 100:161 (d) 100:181
2. An amount of money is to be distributed among P, Q and R in the ratio of 5:4:7 respectively. If the total share of P and R is 3 times the share of Q; What is the share of Q?
(a) ₹ 2000 (b) ₹ 4000 (c) ₹ 6000 (d) Indeterminate
3. A vessel contains milk and Water in the ratio of 4:3. If 14 litres of the mixture is drawn and filled with Water, the ratio changes to 3:4. How much milk was there in the Vessel initially?
(a) 24 (b) 32 (c) 40 (d) 48
4. The ratio of two numbers is 3:4. If 3 is subtracted from both the numbers; the ratio becomes 1:2. Find the sum of the two numbers?
(a) 9 (b) 10.5 (c) 11.5 (d) 12
5. The sum of three numbers is 210. If the ratio between the first and second number be 2:3 and that between the second and third be 4:5; then the difference between the first and third number?
(a) 21 (b) 35 (c) 42 (d) 56

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6. A bag contains 25p coins; 50p coins and 1 rupee coins whose values are in the ratio of 8:4:2. The total values of the coins are 840. Find the total amount in rupees.

(a) ₹ 220 (b) ₹ 240 (c) ₹ 260 (d) ₹ 280

7. The income of Neha and Hitesh are in the ratio of 4:5 and their expenditure is in the ratio 2:3. If each of them saves ₹ 2000; then find their income?

(a) ₹ 4000; ₹ 6000 (b) ₹ 4000; ₹ 5000
(c) ₹ 5000; ₹ 4000 (d) ₹ 5000; ₹ 6000

8. A company reduces his employee in the ratio 14:12 and increases their wages in the ratio 16:18; determine whether the bill of wages increases or not and in what ratio.

(a) Decreases, 28:27 (b) Increases, 27:28
(c) Decreases, 29:28 (d) Increases; 28:29

9. Two numbers are in the ratio of 5:6 and if 4 is added to the first number and 4 is subtracted from the second; then the ratio becomes 3:2. Find the difference between two numbers.

(a) 2.5 (b) 3.5 (c) 4.5 (d) 6.5

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10. A 50 litre of mixture contains milk and water in the ratio 2:3. How much milk must be added to the mixture so that it contains milk and water in the proportion of 3:2.

- (a) 20 (b) 25 (c) 30 (d) 35

11. The ratio between number of girls and boys in a school is 5:6. If 40% of the boys and 20% percent of the girls are scholarship holders; what percentage of the students does not get scholarship?

- (a) 68% (b) 69% (c) 71% (d) 80%

12. An amount is to be divided between A, B and C in the ratio 2:3:5 respectively. If C gives ₹200 of his share to B; then the ratio among A, B and C becomes 3:5:4. What is the total sum?

- (a) ₹5000 (b) ₹6000 (c) ₹7000 (d) ₹8000

13. Two vessels contain equal quantity of solution. One contains milk and water in the ratio of 7:2 and the other 4:5 respectively. Now the solutions are mixed with each other; then find the ratio of milk and water in the final solution?

- (a) 11:7 (b) 11:6 (c) 11:5 (d) 11:9

14. If 40% of a number is subtracted from the second number then the second number is reduced to its $\frac{3}{5}$. Find the ratio between the first number and the second number.

- (a) 1:3 (b) 1:2 (c) 1:1 (d) 2:3

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15. A sum of ₹ 12600 is to be distributed between A, B and C. For every rupee A gets, B gets 80p and for every rupee B gets, C gets 90 paise. Find the amount get by C.

- (a) ₹ 3200 (b) ₹ 3600 (c) ₹ 4200 (d) ₹ 4600

16. The sum of the squares between three numbers is 5000. The ratio between the first and the second number is 3:4 and that of second and third number is 4:5. Find the difference between first and the third number.

- (a) 20 (b) 30 (c) 40 (d) 50

17. Section A and B of 7th Class in a School contains total 285 students. Which of the following can be a ratio of the number of boys and number of girls in the class?

- (a) 6:5 (b) 10:9 (c) 11:9 (d) 13:2

18. Ratio A and B is the ratio 5:8. After 6 years; the ratio of ages of A and B will be in the ratio 17:26. Find the present age of B.

- (a) 72 (b) 65 (c) 77 (d) 60

19. A bag contains 25p, 50p and 1 rupee coins in the ratio of 2:4:5 respectively. If the total money in the bag is ₹ 75; find the number of 50p coins in the bag.

- (a) 45 (b) 50 (c) 25 (d) 40

(1) : RATIO & PROPORTION :- <5>

20. A is directly proportional to B and also directly proportional to C. When $B = 6$ and $C = 2$; $A = 24$. Find the value of A When $B = 8$ and $C = 3$.
(a) 42 (b) 40 (c) 58 (d) 48

21. Divide ₹ 2340 into three parts; such that first part be double that of second part and second part be $\frac{1}{3}$ of the third part. Find the third part?
(a) ₹ 780 (b) ₹ 1170 (c) ₹ 750 (d) ₹ 390

22. There are two numbers. When 25% of the first number is added to the second number; the resultant number is 1.5 times the first number. What is the ratio of 1st number to the second number?
(a) 3:5 (b) 5:4 (c) 4:5 (d) 2:3

23. The ratio of Ganesh's age and his mother's age is 5:12. The difference of their ages is 21. The ratio of their ages after 4 years will be.
(a) 3:7 (b) 6:11 (c) 4:7 (d) 19:40

24. Ravi and Govind have money in the ratio 5:12 and Govind and Kiran also have money in the same ratio 5:12. If Ravi has ₹ 500; then Kiran has.
(a) ₹ 2500 (b) ₹ 2880 (c) ₹ 1850 (d) ₹ 3100

25. A bag contains 10p, 25p and 50p coins in the ratio of 5:2:1 respectively. If the total money in the bag is ₹ 120. Find the number of 25p coins in that bag?
(a) 160 (b) 130 (c) 110 (d) 90