

Ratio and Proportion

- 1) Income of A and B are in a ratio of 4:3 and expenditures are in a ratio of 2:1 and each saves Rs 1000 , find sum of their income?
a) 2100 b) 2800 c) 3500 d) 4200
- 2) A amount of Rs.78000 is distributed among A, B and C in a ratio of $1/2:1/3:1/4$, then what is the share of B ?
a) 18000 b) 24000 c) 36000 d) 36000
- 3) The length , breadth and height of the room are in a ratio of 3:2:1 and volume of the room is 1296 , what is the length of the room?
a) 36 b) 18 c) 12 d) 6
- 4) In a bag 25paise , 50 paise and 1rupee coins are in a ratio of 2:3:1 , if total worth of the coins is 900 , find total number of coins in the bag ?
a) 900 b) 600 c) 1200 d) 1800
- 5) The ratio of milk and water in a 30 litre mixture is 3:2, how much water should be added to make the ratio 1:1?
a) 3 b) 6 c) 9 d) 12
- 6) If income of A, B, C in ratio of 2 : 9 : 11 and income of B is Rs.280 more than that of A, what is the income of C?
(a) Rs.480 (b) Rs.440 (c) Rs.540 (d) Rs.450
- 7) The ratio between two numbers is 15 : 11. If each number is decreased by 6, the ratio become 3 : 2. Find the numbers.
(a) 30, 22 (b) 15, 11 (c) 45, 33 (d) 60, 44
- 8) A diamond falls down and breaks into pieces whose weight are in the ratio 1 : 3 : 6. If the value of the diamond is proportional to the square of its weight, and its original value is Rs.30000, what is the loss in value due to breakage?
(a) Rs.14800 (b) Rs.12600 (c) Rs.16200 (d) Rs.21000
- 9) Harini distributed 250 chocolates among 4 kids. The share of the first kid, twice the share of second kid, thrice the share of third kid and four times the share of fourth kid are all equal. Find the number of chocolates received by 3rd kid.
(a) 40 (b) 80 (c) 60 (d) 12
- 10) Three men A, B and C subscribe Rs.4700 for a business. A subscribes Rs.700 more than B and B Rs.500 more than C. How much will C receive out of a profit of Rs.423?
(a) Rs.135 (b) Rs.198 (c) Rs.90 (d) Rs.190
- 11) A and B enter into a partnership for a year. A contributes Rs.3000 and B Rs.4000. After 8 months they admit C, who contributes Rs.4500. If B withdraws his contribution after 6 months, how would they share a profit of Rs.1000 at the end of the year?
(a) Rs.250, Rs.200, Rs.550 (b) Rs.375, Rs.250, Rs.375 (c) Rs.150, Rs.200, Rs.650
(d) None of these
- 12) Three partners A, B and C together invested Rs.4400 in a business. At the end of the year, A got Rs.1250, B got Rs.2500 and C got Rs.3750 as profit. How much amount did C invest?
(a) Rs.2400 (b) Rs.4800 (c) Rs.7200 (d) Rs.9600
- 13) The students in three batches at XYZ coaching center are in a ratio of 2:3:5. if 20 more students are joined in each batch, the ratio changes to 4:5:7. The total number of students before joining of students were?
a) 10 b) 90 c) 100 d) 150
- 14) Ratio of two numbers is 7:9, if 15 is subtracted from each ratio will become 2:3. what is the sum of these two numbers?
a) 80 b) 160 c) 240 d) 300

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- 15) In a school there are 15 more girls than boys. If the number of girls is increased by 10% and the number of boys is also increased by 16%, there would be 9 more girls than boys. What is the number of students in the school ?
a) 140 b) 125 c) 265 d) 255
- 16) The ratio of squares of first n natural numbers to square of sum of first n natural numbers is 17:325. The value of n is:
a) 15 b) 25 c) 35 d) 40
- 17) In a house, there are dogs, cats and parrot in the ratio 3:7:5. If the number of cats was more than the number of dogs by a multiple of both 9 and 7, what is the minimum of pets in the house?
a) 945 b) 630 c) 252 d) 238
- 18) Two cogged wheels of which one has 32 cogs and other 54 cogs, work into each other. If the latter turns 80 times in three quarters of a minute, how often does the other turn in 8 seconds?
a) 48 b) 24 c) 38 d) none
- 19) On a certain day, the ratio of the passenger in the 1st class and the second class travelling by train is 1:3. The ratio of the fares collected from each first class and second class passengers is 30:1. If the total amount collected from all the passengers is Rs 1,320. Find the amount in rupees collected from the second class passengers.
a) 120 b) 240 c) 360 d) 480
- 20) A,B ,C together earn Rs. 1450 and spend 605 , 655 and 705 of their salaries respectively . If their savings are 14:21:15 . The salary of B is ?
a) 750 b) 500 c) 350 d) 600