Ratio Proportion (3)

1. If A: B=7:9 and B:C=8:11. Find A: B:C
2. If a/7=b/9=c/11 then find the value of a:b:c.
3. If A:B= ½:3/8 , B:C= 1/3:5/9 and C:D= 5/6:3/4, Then find the ratio of A:B:C:D
4. Calculate the fourth proportional to the number 286,78,1342.
5. Rs. 120 is divided among 6 men, 8 women and 6 boys so that a man gets as much as 2 boys and 2 women get as much as 3 boys. Find the share of a boy.
6. Two numbers in the ratio 1:2. If 7 is added to both, their ratio changes to 3:5. Find the greater Number.
7. If 1000 copies of a book of 25 sheets requires 50 reams of paper, how much paper required for 5000 copies of a book of 32 sheets?
8. A certain sum was divided among P and Q in the ratio 5:6. If Q's share was Rs.2400. Find the total sum.
9. The ratio of Number of boys and girls in a college is 7:8. If the percentage increase in the number of boys and girls is 20% and 10% respectively. What is the new ratio?
10. A and B together have Rs.1210. if 4/15 of A's amount in equal to 2/5 of B's amount. How much amount does B have?
11. A sum of Rs.221 is divided among X,Y and Z such that X gets Rs.52 more than Y, Y gets Rs.26 more than Z. Find the ratio of the shares of X,Y and Z respectively.
12. Two numbers are in the ratio of 2:3. If 9 is added each part, they will be in the ratio 3:4. What is the product of the two numbers.
13. The ratio of Sita's, Riya's and Kunal's monthly income is 84:76:89. If Riya's annual income is Rs.456000, What is the sum of Sita's and Kunal's annual income?
14. When the numerator and denominator of a fraction are increased by 1 and 2 respectively, the fraction becomes 2/3 and when the numerator and the denominator of the same fraction are increased by 2 and 3 respective/y, the fraction becomes 5/7. What is the original fraction?
15. The ratio of the monthly salaries of A and B is in ratio 15:16 and that of B and C is the ratio 17:18. Find the monthly income of C if the total of their monthly salary is Rs. 187450.

Solution

1) 56:72:99
2) 7:9:11
3) 8:6:10:9
4) 366
5) Rs. 4
6) 28
7) 320
8) Rs.4400
9) 21:22
10) Rs.484
11) 9:5:3
12) 486
13) Rs.1038000
14) ¾
15) Rs.66240