

Ratio Proportion (6)

1. The respective ratio of the present ages of a mother and daughter is 7:1. Four years ago the respective ratio of their ages was 19:1. What will be the mother's age four years from now?
2. The ratio of the monthly incomes of Sneha, Tina and Akruti is 95:110:116. If Sneha's annual income is Rs.3,42,000, What is Akruti's annual income?
3. The ratio of the number of boys to that of girls was 1:2 but when 2 boys and 2 girls left, the ratio become 1:3. How many people were at the party originally?
4. 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 shares of X, Y and Z.
5. Samir's age is one fourth of his father's age and two third of his sister Reema's age. What is the ratio of the ages of Samir, Reema and their father respectively?
6. Box A contains wheat worth Rs.30 per kg, and box B contains wheat worth Rs.40 per kg. if both A and B are mixed in the ratio 4:7 then find the price of mixture per kg?
7. The ratio of the ages of two persons are in the ratio 5:7 and the difference between their ages is 18 years. Find the sum of the ages of the person after 5 years.
8. The ratio of salaries of A and B is 8:9. If A's salary is increased by 50% and B's salary is reduced by 25%, their ratio become 16:9. What is salary of A?
9. A sum of money is divided among A,B, C and D in the ratio of 3:5:9:13 respectively. If the share of C is Rs.2412 more than the share of A, then what is the total amount of money of B and D together?
10. Number of employees in a factory decreases in the ratio of 8:7 and salaries of employees increase in the ratio of 5:6. Find total salary given to the employees is increased or decreased and in what ratio?
11. Pravin purchased 25 kg of Rice at the rate Rs.45 per kg and 12 kg of pulses at the rate of Rs.28 per kg. what is the total amount that he paid to the shopkeeper?
12. A mixture of Milk and Water contains 55% milk and remaining water. How much water should be added in percentage in mixture to reverse the proportion of milk and water.
13. A mixture contains Milk and honey in the ratio 7:1. On adding 6 litres of honey, the ratio of Milk and honey becomes 7:2. Find the quantity of milk in the mixture?
14. A vessel contains milk and water in the ratio 5:4. If 27 l of mixture is removed and the same quantity of water is added, the ratio become 4:5. What quantity does the vessel contain?
15. The income of Ashok and Suresh are in the ratio 4:3 and their expenditures are in the ratio 3:2. If each saves Rs.800. What will be their Income?

Solutions

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| 1) 46 years | 12) 22% |
| 2) Rs. 4,17,600 | 13) 42 l |
| 3) 12 | 14) 135 l |
| 4) 9:5:3 | 15) Ashok Rs.3200 and Suresh Rs. 2400 |
| 5) 2:3:8 | |
| 6) Rs. 36.36 | |
| 7) Rs. 118 years. | |
| 8) CND | |
| 9) Rs.7236 | |
| 10) 20:21 increased | |
| 11) Rs. 1,461 | |