

Ratio and Proportion

1. The average age of three boys is 25 years and their ages are in the proportion 3:5:7. Find the age of the youngest boy.
2. John weighs 56.7 kilograms. If he is going to reduce his weight in the ratio 7:6, find his new weight.
3. The ratio of the no. of boys to the no. of girls in a school of 720 students is 3:5. If 18 new girls are admitted in the school, find how many new boys may be admitted so that the ratio of the no. of boys to the no. of girls may change to 2:3.
4. The monthly incomes of two persons are in the ratio 4:5 and their monthly expenditures are in the ratio 7:9. If each saves \$50 per month, find the monthly income of the second person.
5. The ratio of the prices of two houses was 16:23. Two years later when the price of the first has increased by 10% and that of the second by \$477, the ratio of the prices becomes 11:20. Find the original price of the first house.

6. Find in what ratio will the total wages of the workers of a factory be increased or decreased, if there be a reduction in the number of workers in the ratio 15:11 and an increment in their wages in the ratio 22:25.
7. If the angles of a triangle are in the ratio 2:7:11, then find the angles.
8. The ratio of two numbers is 7:10. Their difference is 105. Find the numbers.
9. A , B and C are three cities. The ratio of average temperature between A and B is 11:12 and that between A and C is 9:8. Find the ratio between the average temperature of B and C.
10. The ratio between the speeds of two trains is 7:8. If the second train runs 400 kms. in 5 hours, the speed of the first train is

Answers:

1) 15 years

2) 48.6 kg

3) 42

4) \$500

5) \$848

6) 6 : 5

7) 18° , 63° , 99°

8) 245 and 350

9) 27 : 22

10) 70 kmph

Do you need the step by step solution for the above problems, please click on the following link.

<http://www.onlinemath4all.com/ratio-and-proportion-worksheets-with-answers.html>

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