

Worksheet

- State whether true or false.
 - In the ratio 3 : 5, 5 is the antecedent.
 - In the ratio 5 : 7, 7 is the consequent.
 - The ratio between 30 p and ₹ 1 is 3 : 10.
 - A ratio has no unit.
- Choose the correct answer.
 - The ratio 24 : 32 in the simplest form is
 - 2 : 3
 - 3 : 2
 - 3 : 4
 - 4 : 3
 - A ratio with 5 as antecedent and 8 as consequent is
 - 8 : 5
 - 5 : 8
 - 5 : 16
 - 10 : 8
 - The ratio between 200 cm and 4 m is
 - 1 : 2
 - 2 : 1
 - 1 : 4
 - 4 : 1
 - In the proportion $a : b :: c : d$
 - $ab = cd$
 - $ad = bc$
 - $ac = bd$
 - $a + b = c + d$
- In a garden, the ratio of roses to lotus is 3 : 4. If the number of roses is 75, then what is the number of lotuses?
- The sides of a triangle are in the ratio 2 : 3 : 5. If the perimeter of the triangle is 100 cm, then what are the lengths of the sides?
- Compare the following ratios and say which one is bigger.
 - 6 : 5 and 4 : 3
 - 1 : 2 and 1 : 4
 - 2 : 3 and 4 : 5
- In a building, there are 45 families. If 15 of them like a TV channel A, 5 like TV channel B and the rest like TV channel C. What is the ratio of the number of families who like channels A, B and C, respectively?
- 210 toffees were distributed between Shashank, Mangala and Kshitij. If Mangala received double number of toffees than Shashank and Kshitij received three times the number of toffees than Shashank, find the number of toffees each one of them received.
- Find the missing values of x , y and z .
 - $25 : 65 = x : 130$
 - $2 : 3 = 12 : y$
 - $5 : 7 = z : 28$
- In a day, Shraavan sleeps for 8 hours, studies for 4 hours, spends 6 hours in school and rest of the hours in miscellaneous activity. Find the following:
 - Ratio of number of hours spent in sleeping to studying.
 - Ratio of number of hours spent in school to the total number of hours.
- Find the value of x in the following proportions.
 - 15, 30, 6, x
 - 200, 500, x , 100
 - 20, x , 60, 150
- In a school, the ratio of girls to boys is 7 : 5. If the total number of students is 2400, what is the number of girls and boys? What is the difference between the number of girls and boys?

12. The ages of Sneha and Neha are in the ratio 4 : 5. After 6 years, their ages will be in the ratio 6 : 7. What are their present ages?
13. The monthly income of A and B are in the ratio 4 : 3. If the annual income of B is ₹ 1,80,000, find the monthly and annual income of A.

Answers to Worksheet

1. a. False b. True c. True d. True
2. a. iii b. ii c. i d. ii
3. 100 4. 20 cm, 30 cm and 50 cm
5. a. 4 : 3 b. 1 : 2 c. 4 : 5
6. 3 : 1 : 5 7. Shashank–35, Mangala–70, Kshitij–105
8. a. $x = 50$ b. $y = 18$ c. $z = 20$ 9. a. 2 : 1 b. 1 : 4
10. a. $x = 12$ b. $x = 40$ c. $x = 50$
11. Number of girls = 1400, Number of boys = 1000, Difference = 400
12. 12 years and 15 years 13. ₹ 20,000 and ₹ 2,40,000