# Ratio in the Simplest or Lowest Form

1. **Write each of the following ratios in the simplest form:**

   a. 35: 140 _____ b. 90: 360 _____

   c. 425: 350 _____ d. 200: 625 _____

2. **Find the ratio of:**

   **a.** 350 to 745 _____

   **b.** 4 metres to 189 metres _____

   **c.** 360 km to 12 km _____

   **d.** 2 l 300 ml to 3 l 220 ml _____

   **e.** 24 hours to 120 hours _____

   **f.** 34 minutes to 96 seconds

3. **Find the ratio of:**

   a. ₹3 to 120 paise _____ b. 8 dozens to 24 _____

   c. 3 years to 4 months _____ d. 5 months to 6 weeks _____

4. **Complete the following:**

   **a.** The ratio of 60 minutes to 2 hours = 60 min to _____ min
   or 60: _____
   Lowest form = _____

   **b.** The ratio of 250g to 1 kg = 250g to _____ g
   or 250: _____
   Lowest form = _____

   **c.** The ratio of ₹50 to 200 paise = _____ to 200 paise
   or _____ : 200
   Lowest form = _____

   **d.** The ratio of 14 km to 5600m = _____ m to 5600 m
   or _____ : 5600
   Lowest form = _____

**e.** The ratio of 4m to 45 cm = _____ m to 45 cm
or _____ : 45
Lowest term = _____

**5. Express each of the following in its simplest form.**

a. 44:132 _____ b. 27:54 _____ c. 85:255 _____

**6. Find the ratio of**

**a.** 30 minutes to 1.5 hours _____

**b.** 500 ml to 2 liters. _____

**7. Express each of the following as instructed.**

**a.** In a class there are 36 boys and 40 girls. Find the ratio of boys to girls.

**b.** In a box containing 70 bulbs, 25 were found to be defective. Find the ratio of defective bulbs to good bulbs.

**c.** Length of the line segment AB is 9 cm and length of the line segment CD is 7 cm. Find the ratio of line segment AB to line segment CD.

**8. Express the following a ratios.**

**a.** The length of a rectangle is twice of its breadth.

**b.** The number of students passing mathematics test is $\frac{3}{4}$ of the number that appeared.

**9. Solve the following.**

Out of 1800 students in a school, 750 opted basketball, 800 opted cricket and remaining opted table tennis. If a student can opt only one game, find the ratio of:

**a.** Number of students can opt basketball to the number of students who opted table tennis.

**b.** Number of students who opted cricket to the number of students who opted basketball.

**c.** Number of students who opted basketball to the number of total students.

10. **The length of a room is 13m and its breadth is 7.8 m. Find the ratio of its length to its breadth.**

11. **Rakesh works as a lecturer and earns ₹25,000 per month. His wife who is an editor earns ₹30,000 per month. Find the ratio of:**
    a. Rakesh's income to the income of his wife.
    b. Rakesh's income to their total income.

12. **Kabir works in a company and earns ₹5950 per month. He saves ₹870 per month from his earnings. Find the ratio of:**
    a. Her savings to her income
    b. Her income to her expenditure
    c. Her savings to her expenditure

13. **The ratio of length of a field to its width is 7: 4. Find its width if its perimeter is 88 metres.**

14. **Divide ₹872 between Kajal and Priyanka in the ratio of 5: 3.**

15. **The ratio of income to the expenditure of a family is 11: 7. Find the income if the saving of the family is ₹480.**

16. **A factory produces bulbs. If 3 out of every 12 bulbs are defective and daily production of the factory is 7500 bulbs. Find out the number of defective as well as non-defective bulbs.**

17. **In a class test 45 out of 135 students passed. Find the ratio between the:**
    a. failed students to the number of passed students.
    b. passed students to the total number of students.

18. **Two numbers are in the ratio 2:5. If the sum of the numbers is 63. Find the answers.**

19. **The scale of a map is 1 : 20,00,000. What is the actual distance between the two town if they are 2 cm apart on the map?**