

Chapter – 12

Ratio and proportion

Worksheet – 1

1. If p, q, r, s are in proportion, then –
 - a. $Pr = qs$
 - b. $Pq = rs$
 - c. $Ps = qr$
 - d. None of the above
2. Convert 90:40 into simpler form?
 - a. 8:9
 - b. 9:8
 - c. 8:8
 - d. 9:4
3. Find the ratio of 60 cm to 3 m?
 - a. 1:6
 - b. 1:5
 - c. 1:8
 - d. 2:5
4. The length and breadth of a rectangular field are 120 m and 80 m, then what is the ratio of length and breadth?
 - a. 3:6
 - b. 3:2
 - c. 1:4
 - d. 2:5
5. If 40 apples cost ₹240, what is the ratio of an apple to its cost?
 - a. 1:4
 - b. 1:8
 - c. 1:7
 - d. 1:6
6. What is the ratio of 30 minutes to 2 hours?
 - a. 2:4
 - b. 3:8
 - c. 1:4
 - d. 2:6

7. Find the ratio of 500 ml to 3 l?

- 2:4
- 3:8
- 1:4
- 1:6

8. Which of the following is an equivalent ratio of 150:450?

- 30:60
- 30:90
- 120:240
- 40:80

9. Which of the following ratio is not equivalent to 1:2?

- 20:40
- 50:100
- 60:180
- 70:140

10. Derive three equivalent ratios of 35:105?

11. Check whether the given ratios: $\frac{12}{16}, \frac{30}{40}, \frac{45}{60}$ are equivalent to each other or not?

12. Divide ₹200 between Anil and Sneha in the ratio of 1:4?

13. Ashish and Rahul started a business and invested money in the ratio 4:6.
After one year the total profit was ₹80,000. How much is the share of Ashish in the profit?

14. Are 30, 60, 120, 240 in proportion?

15. 20 men can reap a field in 30 days. How many days 30 men can reap the same field?

16. Two numbers are in the ratio 1:8 and their sum is 900. Find the two numbers?

17. Compare whether ratio $\frac{30}{100}$ is bigger or smaller than $\frac{4}{5}$?

18. Divide ₹24600 between Anil and Sneha in the ratio of 20:40?

19. Divide ₹120600 between Satish and Rahul in the ratio of 20:100?