

Choose the correct option:

1. A ratio equivalent to 5: 7 is
(a) 10: 21 (b) 15: 14 (c) 20: 28 (d) 25: 49
2. The ratio of 20 minutes to 1 hour is
(a) 20: 1 (b) 1:3 (c) 1: 4 (d) 12: 5
3. If the cost of 12 caps in ₹204, then the cost of 5 caps is
(a) ₹100 (b) ₹102 (c) ₹85 (d) ₹ 120
4. If $57 : x = 51 : 85$, then the value of x is
(a) 114 (b) 95 (c) 76 (d) 82
5. Which of the following is the ratio of one rupee to 50 paise?
(a) 1:1 (b) 1: 2 (c) 1: 50 (d) 2: 1
6. Find the missing number
(a) $35 = 20$ (b) $18 = 29$ (c) $8 = 324$ (d) $1640 = 24$
e. $1636 = 63 = 36 = 117$
7. State true or false:
(a) $4 : 7 = 20 : 35$ (b) $3 : 33 = 33 : 333$
(c) $15m : 40m = 35m : 65m$ (d) $5kg : 7.5kg = ?7.50 : ?5$
(e) $20g : 100g = 1m : 500cm$ (f) $12 \text{ hours} : 30 \text{ hours} = 8km : 20km$
(g) The ratio of 10kg to 100kg is 1: 10 (h) The ratio of 1 hour to one day is 1: 1
(i) The ratio of 4:16 is in its lowest form. (j) The ratio 5:4 is different from 4: 5

Fill in the blanks

8. A ratio is a form of comparison by ____.
9. If two ratios are equal then they are in ____.
10. $20m : 70m = ?8 : ?$ ____
11. Out of 1800 students in a school, 750 opted for basketball, 800 opted for cricket and the remaining opted for table tennis. If a student can opt for only one game, find the ratio of
 - a. Number of students who opted for basketball to the number of students opting for table tennis.
 - b. Number of students who opted for cricket to the number of students opting for basketball
 - c. Number of students who opted for basketball to the total number of students
12. The father's present age is 42 years and his son's is 14 years. Find the ratio of
 - a. Present age of the father to the present age of the son
 - b. Age of father to the age of the son when the son was 12 years old
 - c. Age of father after 10 years to son after 10 years
 - d. Age of the father to the age of the son when the father was 30 years old
13. Two girls are aged 12 years and 15 years. They want to divide ₹180 in the ratio of their ages. How much money would each get?
14. The ratio of the marks secured by Ayush and Amrita is 5:6. If Amrita secured 78 marks, what did Ayush score?
15. Six men pack 312 parcels per day. Find the number of parcels packed by 11 men per day.
16. If a rail journey of 184km costs ₹230, how much should a journey of 525km cost?