

Grade 6 Ratio and Proportion Worksheets

Grade 6 Maths Ratio and Proportion Multiple Choice Questions (MCQs)

1. If x , 30, 24 and 16 are in proportion then find the value of x .

- (a) 45
- (b) 60
- (c) 80
- (d) none of these

2. If 8, 18, 18 and x are in proportion then find the value of x .

- (a) 405
- (b) 40.5
- (c) 81
- (d) none of these

3. If 14, 16, x and 24 are in proportion then find the value of x .

- (a) 105
- (b) 10.5
- (c) 21
- (d) none of these

4. The mean proportion of 9 and 16 is:

- (a) 3
- (b) 12
- (c) 33
- (d) 11

5. The ratio of 90 cm to 1.5 m is

- (a) 3 : 5
- (b) 5 : 3
- (c) 60 : 1
- (d) 4 : 3

6. 6 : 4 is equivalent ratio of

- (a) 2 : 3
- (b) 3 : 2
- (c) 1 : 2
- (d) 1 : 4

7. Fill in the blanks:- $\frac{15}{18} = \frac{\dots}{6}$

- (a) 5
- (b) 4
- (c) 3
- (d) 2 + 7

8. Find the value of x in $4 : 3 = x : 12$?

- (a) 4
- (b) 12
- (c) 16
- (d) 3

9. In proportion first and the last terms are called

- (a) mean terms
- (b) extreme terms
- (c) middle terms
- (d) none of these

10. If the cost of 6 cans of juice is ₹ 210, then what is the cost of 4 cans of juice?

- (a) ₹ 120
- (b) ₹ 140
- (c) ₹ 100
- (d) ₹ 80

11. Which of the following is correct?

- (a) $3 : 4 = 15 : 24$
- (b) $12 : 24 = 6 : 12$
- (c) $7 : 3 = 14 : 3$
- (d) $5 : 10 = 9 : 20$

12. Find the value of x in $3 : 4 = x : 16$?

- (a) 4
- (b) 16
- (c) 12
- (d) 3

13. Two quantities can be compared only if they are in the same

- (a) ratio
- (b) units
- (c) proportion
- (d) none of these

14. The ratio is said to be not in simplest form if common factor is

- (a) 1
- (b) Other than 1
- (c) -1
- (d) None of these

15. Fill in the blanks: 30, 40,, and 60 are in proportion.

- (a) 15
- (b) 45
- (c) 35
- (d) 10

16. Fill in the blanks:- $\frac{36}{\dots} = \frac{72}{6}$

- (a) 8
- (b) 12
- (c) 3
- (d) 6

17. Divide 20 pens between Sheela and Sangeeta in the ratio of 3 : 2.

- (a) 12, 8
- (b) 11, 9
- (c) 10, 10
- (d) 14, 6

18. 36 : 84 is equivalent ratio of

- (a) 7 : 3
- (b) 3 : 7
- (c) 6 : 7
- (d) 12 : 7

19. 6 bowls cost ₹ 90. What would be the cost of 10 such bowls?

- (a) ₹ 300
- (b) ₹ 150
- (c) ₹ 200
- (d) ₹ 250

20. The car that I own can go 150 km with 25 litres of petrol. How far can it go with 30 litres of petrol?

- (a) 125 km
- (b) 150 km
- (c) 250 km
- (d) none of these

Class 6 Maths Ratio and Proportion True(T) or False(F)

1. $4 : 7 = 20 : 35$
2. If $b : a = c : d$, then a, b, c, d are in proportion.
3. The ratio 4 : 16 is in its lowest form.
4. The two terms of a ratio can be two different units.
5. The ratio of ₹ 8 to 80 paise is 1 : 10.

Class 6 Maths Ratio and Proportion Very Short Answer Type Questions

1. Present age of father is 42 years and that of his son is 14 years. Find the ratio of:
 - (a) Present age of father to the present age of son
 - (b) Age of the father to age of the son, when son was 12 years old
 - (c) Age of father after 10 years to the age of son after 10 years.
 - (d) Age of father to the age of son when father was 30 years old

2. Find the ratio of the following:

- (a) 90 cm to 1.5 m
- (b) 4 days to 2 weeks
- (c) 60 paise to ₹ 3
- (d) 50 minutes to 2 hours
- (e) 3 dozen to 3 scores
- (f) 3.5 litres to 700 ml

3. Express each of the following in its simplest form :

- (a) 3 km: 1500 km
- (b) 250 : 1000
- (c) 34 : 85
- (d) 4.8 m :240m

4. In a year Ravi earns ₹ 4,00,000 and saves ₹ 1, 50,000, find the ratio of

- (a) money that Ravi earns to the money he saves.
- (b) money that Ravi saves to the money he spends.

Class 6 Maths Ratio and Proportion Short Answer Type Questions

- 1. A piece of wire 40 cm in length is divided into two parts that are in the 3 : 5. Find the length of each part.
- 2. The ratio of Amit's age to that of Reena's age is 3 : 2. Complete the table that shows the possible ages of Amit and Reena.

Amit's age	12	?	18
Reena's age	?	10	?

- 3. The marked price of a table is ₹ 625 and its sale price is ₹ 500. What is the ratio of the sale price to the marked price?
- 4. A rectangular sheet of paper is of length 1.2 m and width 21 cm. Find the ratio of width of the paper to its length.

Class 6 Maths Ratio and Proportion Long Answer Type Questions

- 1. A scooter travels 120 km in 3 hours and a train travels 120 km in 2 hours. Find the ratio of their speeds.
- 2. Find two numbers whose sum is 100 and whose ratio is 9 : 6.
- 3. A metal pipe 3 metre long was found to weigh 7.6 kg. What would be the weight of the same kind of 7.8 m long pipe?