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:-** $\frac{15}{18} = \frac{\ldots}{6}$
(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:-** $\frac{36}{...} = \frac{72}{6}$
(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. Flow 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?