

PRACTICE TEST PAPER - 2026

Subject: Mathematics **Class:** 7

Chapter: Ratio and Proportion

Test Code: 2026 : Ratio and Proportion : 7 : 001

Level: Intermediate to Advance **Time:** 45 Minutes

Instructions: Select the most appropriate option for each of the following 15 Multiple Choice Questions. Each question carries equal marks.

Q1. Simplify the ratio $0.75 : 1.25 : 2$ to its lowest terms.

- (A) $3 : 5 : 8$
- (B) $15 : 25 : 40$
- (C) $3 : 5 : 4$
- (D) $75 : 125 : 200$

Q2. If $A : B = 3 : 4$ and $B : C = 8 : 9$, then the ratio $A : B : C$ is:

- (A) $3 : 8 : 9$
- (B) $6 : 8 : 9$
- (C) $3 : 4 : 9$
- (D) $6 : 4 : 9$

Q3. If $(3x + 5y) : (3x - y) = 7 : 1$, find the value of $x : y$.

- (A) $2 : 3$
- (B) $3 : 2$
- (C) $4 : 3$
- (D) $1 : 2$

Q4. An amount of Rs. 1,050 is divided among A, B, and C in the ratio $\frac{1}{3} : \frac{1}{4} : \frac{1}{6}$. What is the share of B?

- (A) Rs. 350
- (B) Rs. 466.67
- (C) Rs. 300
- (D) Rs. 400

Q5. What number must be added to each of the numbers 6, 15, 20, and 43 to make them proportional?

- (A) 2
- (B) 3
- (C) 4
- (D) 5

Q6. If 12 men can complete a construction project in 20 days, how many men are required to complete the same work in 15 days?

- (A) 16 men
- (B) 9 men
- (C) 18 men
- (D) 25 men

Q7. On a map, a distance of 500 km is represented by 2.5 cm. What is the actual distance between two cities that are 8.4 cm apart on the map?

- (A) 1680 km
- (B) 2100 km
- (C) 1260 km
- (D) 1840 km

Q8. The mean proportional between 9 and 16 is:

- (A) 12.5
- (B) 12
- (C) 144
- (D) 7

Q9. The ratio of the income to the expenditure of a family is 10 : 7. If the family's savings are Rs. 12,000, find the total income.

- (A) Rs. 40,000
- (B) Rs. 28,000
- (C) Rs. 36,000
- (D) Rs. 48,000

Q10. If $x, 12, 8$, and 6 are in proportion, find the value of $x^2 - 10$.

- (A) 54
- (B) 246
- (C) 150
- (D) 30

Q11. In a mixture of 60 litres, the ratio of milk and water is 2 : 1. How much more water must be added to make the ratio 1 : 2?

- (A) 20 litres
- (B) 40 litres
- (C) 60 litres
- (D) 30 litres

Q12. A fort has enough food for 150 men for 45 days. After 10 days, 25 men left the fort. For how many more days will the remaining food last?

- (A) 35 days
- (B) 42 days
- (C) 50 days
- (D) 40 days

Q13. If the cost of 3 dozen oranges is Rs. 180, what is the cost of 25 oranges?

- (A) Rs. 125
- (B) Rs. 150
- (C) Rs. 100
- (D) Rs. 135

Q14. The sides of a triangle are in the ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$. If the perimeter of the triangle is 52 cm, the length of the smallest side is:

- (A) 12 cm
- (B) 16 cm
- (C) 24 cm
- (D) 10 cm

Q15. If 8 identical machines can produce 560 units in 4 hours, how many units can 12 such machines produce in 10 hours?

- (A) 2100 units
- (B) 1680 units
- (C) 2400 units
- (D) 1800 units

— End of Question Paper —