

# 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 —