

PRACTICE TEST PAPER - 2026

Subject: Mathematics **Class:** 7

Chapter: Ratio and Proportion

Test Code: 2026 : Ratio and Proportion : 7 : 002

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

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

Q1. If $a : b = 2 : 3$, $b : c = 4 : 5$, and $c : d = 6 : 7$, find the ratio $a : d$.

- (A) 2 : 7
- (B) 16 : 35
- (C) 48 : 105
- (D) 16 : 21

Q2. The third proportional to 9 and 12 is:

- (A) 15
- (B) 16
- (C) 18
- (D) 21

Q3. If x varies inversely as y , and $x = 10$ when $y = 6$, find the value of x when $y = 15$.

- (A) 4
- (B) 25
- (C) 9
- (D) 12

Q4. A bag contains Rs. 510 in the form of Rs. 1, 50 paise, and 25 paise coins in the ratio 2 : 3 : 4. The number of 50 paise coins is:

- (A) 120
- (B) 240
- (C) 360
- (D) 300

Q5. Two numbers are in the ratio 5 : 8. If 9 is added to each, the ratio becomes 8 : 11. The numbers are:

- (A) 10, 16
- (B) 15, 24
- (C) 20, 32
- (D) 25, 40

Q6. A car travels 180 km in 3 hours. If the speed remains constant, how many minutes will it take to cover 120 km?

- (A) 120 minutes
- (B) 90 minutes
- (C) 100 minutes
- (D) 80 minutes

Q7. If $(x + 2)$, 3, $(2x + 1)$, and 5 are in proportion, the value of x is:

- (A) 7
- (B) 11
- (C) 13
- (D) 15

Q8. The ratio of the length of a vertical pole and its shadow is 4 : 3. If the shadow of a tower is 45 m long, the height of the tower is:

- (A) 60 m
- (B) 33.75 m
- (C) 50 m
- (D) 75 m

Q9. In an alloy, the ratio of Copper to Zinc is 9 : 5. If there is 22.5 kg of Copper in the alloy, the total weight of the alloy is:

- (A) 12.5 kg
- (B) 35 kg
- (C) 31.5 kg
- (D) 40 kg

Q10. If $x : y = 5 : 2$, then the value of $(8x + 9y) : (8x + 2y)$ is:

- (A) 29 : 22
- (B) 22 : 29
- (C) 26 : 21
- (D) 61 : 44

Q11. If 15 workers can build a wall in 48 hours, how many workers will be required to do the same work in 30 hours?

- (A) 20
- (B) 24
- (C) 28
- (D) 32

Q12. An engine pumps 164,000 litres of water in 8 hours. How much water will it pump in 12 hours?

- (A) 246,000 litres
- (B) 205,000 litres
- (C) 328,000 litres
- (D) 284,000 litres

Q13. The ages of A and B are in the ratio 5 : 7. Eight years ago, their ages were in the ratio 7 : 13. The present age of A is:

- (A) 15 years
- (B) 20 years
- (C) 25 years
- (D) 30 years

Q14. If 60

- (A) 4 : 5
- (B) 5 : 4
- (C) 9 : 20
- (D) 20 : 9

Q15. If 4 pumps can empty a tank in 42 minutes, how long will 6 pumps take to empty the same tank?

- (A) 63 minutes
- (B) 28 minutes
- (C) 30 minutes
- (D) 21 minutes

— End of Question Paper —