

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 —