BLOGS

Sectional Test on Quantitative Techniques for CLAT UG [Part 19]

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1. The average of 25 numbers is 48. If the average of the first 10 numbers is 42 and that of the last 10 numbers is 52, find the average of the remaining numbers.

a. 44

b. 46

c. 48

d. 52

2. A sum becomes ₹9,600 in 3 years and ₹10,800 in 5 years at simple interest. Find the principal.

a. ₹7,200

b. ₹7,800

c. ₹8,400

d. ₹9,000

3. The ratio of two numbers is 4 : 7 and their HCF is 6. Find the larger number.

a. 36

b. 42

c. 48

d. 54

4. Two trains 150 m and 250 m long run in the same direction at speeds of 54 km/h and 72 km/h. In how many seconds will the faster train cross the slower train?

a. 70 sec

b. 76 sec

c. 80 sec

d. 88 sec

5. If the cost price of 15 articles equals the selling price of 12 articles, find the profit percentage.

a. 20%

b. 25%

c. 30%

d. 35%

6. A number is increased by 20%, decreased by 10%, and again increased by 25%. What is the net percentage change?

a. 32% increase

b. 35% increase

c. 40% increase

d. 30% increase

7. A bag contains 5 red, 7 blue, and 8 green balls. Two balls are drawn one after another without replacement. Find the probability that both are blue.

a. 21/190

b. 21/380

c. 7/190

d. 7/95

8. Milk and water are mixed in the ratio 7 : 5. If 24 litres of water are added, the ratio becomes 7 : 8. Find the original quantity of the mixture.

a. 72 L

b. 84 L

c. 96 L

d. 108 L

9. Two numbers are in the ratio 6 : 11 and their difference is 45. Find the larger number.

a. 99

b. 105

c. 120

d. 132

10. A boat travels 30 km downstream in 2 hours and the same distance upstream in 3 hours. Find the speed of the stream.

a. 2 km/h

b. 2.5 km/h

c. 3 km/h

d. 3.5 km/h

11. The length of a rectangle is increased by 25% and the breadth is decreased by 20%. Find the percentage change in its area.

a. No change

b. 5% increase

c. 4% decrease

d. 2% decrease

12. The average of 18 numbers is 36. If two numbers 40 and 50 are removed, find the new average.

a. 33

b. 34.875

c. 36

d. 37

13. A trader marks his goods 50% above cost price and allows a discount of 20%. Find his profit percentage.

a. 15%

b. 20%

c. 25%

d. 30%

14. If the radius of a circle increases by 30%, find the percentage increase in its area.

a. 60%

b. 65%

c. 69%

d. 75%

15. The present ages of A and B are in the ratio 5 : 6. After 4 years, the ratio becomes 6 : 7. Find A's present age.

a. 20

b. 24

c. 28

d. 30

Answers

1. Correct Answer: D Total = 25 × 48 = 1200 First 10 = 420 Last 10 = 520 Remaining = 1200 − 940 = 260 Average = 260/5 = 52
2. Correct Answer: B Amount after 3 years = 9600 Amount after 5 years = 10800 Difference = 1200 (interest for 2 years) 1 yr interest = 600 Principal = 9600 − (3 × 600) = ₹7800
3. Correct Answer: B Numbers = 4×6 , 7×6 Larger = 42
4. Correct Answer: C Relative speed = 72 − 54 = 18 km/h = 5 m/s Total length = 400 m Time = 400 / 5 = 80 sec
5. Correct Answer: B CP of 15 = SP of 12 SP/CP = 15/12 Profit = 25%
6. Correct Answer: B 100 → 120 120 → 108 108 → 135 Increase = 35%
7. Correct Answer: A (7/20) × (6/19) = 42/380 = 21/190
8. Correct Answer: C Water increase = 3 parts = 24 1 part = 8 Total parts = 12 Mixture = 12 × 8 = 96 L
9. Correct Answer: A Difference = 5 parts = 45 1 part = 9 Larger = 11 × 9 = 99
10. Correct Answer: B Downstream = 30/2 = 15 Upstream = 30/3 = 10 Stream = (15 − 10)/2 = 2.5 km/h
11. Correct Answer: A 1.25 × 0.80 = 1 Area same (no change).
12. Correct Answer: B Total = 18 × 36 = 648 Remove = 90 Remaining = 558 Average = 558/16 = 34.875
13. Correct Answer: B CP = 100 MP = 150 After 20% discount → 120 Profit = 20%
14. Correct Answer: C Area ∝ r^2 $(1.3)^2$ = 1.69 Increase = 69%
15. Correct Answer: B Let ages = 5x, 6x (5x+4)/(6x+4) = 6/7 x = 4 A = 5×4 = 24