BLOGS

Sectional Test on Quantitative Techniques for CLAT UG [Part 20]

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1. The average of 16 numbers is 35. If the average of 6 of them is 30, what is the average of the remaining numbers?

a. 36

b. 37

c. 38

d. 39

2. A sum amounts to ₹5,400 in 2 years and ₹6,300 in 4 years at simple interest. Find the principal.

a. ₹3,600

b. ₹3,900

c. ₹4,200

d. ₹4,500

3. The ratio of two numbers is 5 : 8 and their difference is 36. Find the smaller number.

a. 45

b. 50

c. 60

d. 72

4. A train covers 300 km in 5 hours. How long will it take to cover 420 km at the same speed?

a. 6 hours

b. 7 hours

c. 7.5 hours

d. 8 hours

5. If the cost price of 12 articles equals the selling price of 10 articles, find the profit percentage.

a. 10%

b. 15%

c. 20%

d. 25%

6. Calculate the net percentage change of a value that is first increased by 30% and subsequently reduced by 20%.

a. 4% increase

b. 2% increase

c. 4% decrease

d. No change

7. A bag contains 4 red, 6 blue, and 10 green balls. What is the probability of drawing a green ball?

a. ½

b. ⅖

c. ⅜

d. ¼

8. Milk and water are mixed in the ratio 3 : 2. If 10 litres of water are added, the ratio becomes 3 : 4. Find the original quantity.

a. 25 L

b. 30 L

c. 40 L

d. 50 L

9. Two numbers are in the ratio 7 : 9. If their sum is 256, find the larger number.

a. 112

b. 126

c. 144

d. 168

10. A boat travels 24 km downstream in 2 hours and the same distance upstream in 3 hours. Find the speed of the stream.

a. 1 km/h

b. 2 km/h

c. 3 km/h

d. 4 km/h

11. The length of a rectangle increases by 20% and breadth decreases by 10%. Find the net change in area.

a. 8% increase

b. 10% increase

c. 5% decrease

d. No change

12. The average of 10 numbers is 25. If one number 45 is replaced by 15, what is the new average?

a. 22

b. 23

c. 24

d. 25

13. A man spends 60% of his income. If his savings are ₹8,000, find his income.

a. ₹16,000

b. ₹18,000

c. ₹20,000

d. ₹22,000

14. If the radius of a circle is doubled, by what percentage does the area increase?

a. 100%

b. 200%

c. 300%

d. 400%

15. The present ages of A and B are in the ratio 3 : 4. After 5 years, the ratio becomes 4 : 5. Find A's present age.

a. 15 years

b. 18 years

c. 20 years

d. 24 years

Answers

1. Correct Answer: B

Total = 16×35 = 560

6 numbers = 180

Remaining = 380

Avg = 380/10 = **37**

2. Correct Answer: B

Difference = 900 (2 yrs)

1 yr = 45

Principal = 5400 − 900 = **₹3900**

3. Correct Answer: C

3 parts = 36 → 1 part = 12

Smaller = 5×12 = **60**

4. Correct Answer: B

Speed = 300/5 = 60

Time = 420/60 = **7 hrs**

5. Correct Answer: C

CP/SP = 10/12

Profit = **20%**

6. Correct Answer: A

100 → 130 → 104

Increase = **4%**

7. Correct Answer: A

Green = 10

Total = 20

Probability = 10/20 **= ½**

8. Correct Answer: A

Water ↑ 2 parts = 10

1 part = 5

Total = 5×5 = **25 L**

9. Correct Answer: C

Total parts = 16

1 part = 16

Larger = 9×16 = **144**

10. Correct Answer: B

Down = 12

Up = 8

Stream = (12−8)/2 = **2 km/h**

11. Correct Answer: A

1.2 × 0.9 = 1.08 → **8% increase**

12. Correct Answer: A

Total = 250

New total = 250 − 30 = 220

Avg = **22**

13. Correct Answer: C

Savings = 40%

Income = 8000×100/40 = ₹**20000**

14. Correct Answer: C

Area ∝ r^2

$2^2 = 4$ → increase = **300%**

15. Correct Answer: A

(3x+5)/(4x+5)=4/5

$x=5$

$A = 3\times5 =$ **15 years**