

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. $\frac{1}{2}$
- b. $\frac{2}{5}$
- c. $\frac{3}{5}$
- d. $\frac{1}{4}$

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

$$\text{Total} = 16 \times 35 = 560$$

$$6 \text{ numbers} = 180$$

$$\text{Remaining} = 380$$

$$\text{Avg} = 380/10 = \mathbf{37}$$

2. Correct Answer: B

$$\text{Difference} = 900 \text{ (2 yrs)}$$

$$1 \text{ yr} = 45$$

$$\text{Principal} = 5400 - 900 = \mathbf{₹3900}$$

3. Correct Answer: C

$$3 \text{ parts} = 36 \rightarrow 1 \text{ part} = 12$$

$$\text{Smaller} = 5 \times 12 = \mathbf{60}$$

4. Correct Answer: B

$$\text{Speed} = 300/5 = 60$$

$$\text{Time} = 420/60 = \mathbf{7 \text{ hrs}}$$

5. Correct Answer: C

$$\text{CP/SP} = 10/12$$

$$\text{Profit} = \mathbf{20\%}$$

6. Correct Answer: A

$$100 \rightarrow 130 \rightarrow 104$$

$$\text{Increase} = \mathbf{4\%}$$

7. Correct Answer: A

Green = 10

Total = 20

Probability = $10/20 = \frac{1}{2}$

8. Correct Answer: A

Water ↑ 2 parts = 10

1 part = 5

Total = $5 \times 5 = 25$ L

9. Correct Answer: C

Total parts = 16

1 part = 16

Larger = $9 \times 16 = 144$

10. Correct Answer: B

Down = 12

Up = 8

Stream = $(12-8)/2 = 2$ km/h

11. Correct Answer: A

$1.2 \times 0.9 = 1.08 \rightarrow 8\% \text{ increase}$

12. Correct Answer: A

Total = 250

New total = $250 - 30 = 220$

Avg = **22**

13. Correct Answer: C

Savings = 40%

Income = $8000 \times 100/40 = ₹20000$

14. Correct Answer: C

Area $\propto r^2$

$2^2 = 4 \rightarrow \text{increase} = 300\%$

15. Correct Answer: A

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

$$x=5$$

$$A = 3 \times 5 = \mathbf{15 \text{ years}}$$