

BLOGS

Sectional Test on Quantitative Techniques for CLAT UG [Part 22]

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The Quantitative Techniques section of the CLAT UG typically comprises **10-14 questions**, making up **10-12% of the total paper**. It evaluates data interpretation skills through passage-based sets on ratios, percentages, and basic algebra, demanding accuracy, logic, and time efficiency, including quick calculations.

Questions

1. The average of 24 numbers is 50. If the average of 8 numbers is 42 and that of 10 numbers is 56, find the average of the remaining numbers.

- a) 48
- b) 49.3
- c) 50.67
- d) 54

2. A sum amounts to ₹7,200 in 2 years and ₹9,000 in 5 years at simple interest. Find the rate of interest.

- a) 10%
- b) 12%
- c) 15%
- d) 20%

3. The ratio of two numbers is 5 : 9 and their HCF is 7. Find the larger number.

- a) 45
- b) 56
- c) 59
- d) 63

4. A train covers a distance of 300 km. If its speed were increased by 20 km/h, it would take 1 hour less. Find the original speed.

- a) 40 km/h
- b) 50 km/h
- c) 60 km/h
- d) 75 km/h

5. If the cost price of 20 articles equals the selling price of 16 articles, find the profit percentage.

- a) 20%
- b) 25%
- c) 30%
- d) 35%

6. A number is increased by 25%, decreased by 20%, and then increased by 20%. Find the net percentage change.

- a) 20% increase
- b) 25% increase
- c) 30% increase
- d) 28% increase

7. A box contains 4 red, 6 blue, and 10 green balls. Two balls are drawn without replacement. Find the probability that both are green.

- a) $\frac{9}{38}$
- b) $\frac{18}{95}$
- c) $\frac{5}{19}$
- d) $\frac{10}{19}$

8. Milk and water are mixed in the ratio 3 : 2. If 15 litres of water are added, the ratio becomes 3 : 5. Find the original quantity of the mixture.

- a) 25 L
- b) 30 L
- c) 35 L
- d) 40 L

9. Two numbers are in the ratio 7 : 11 and their difference is 48. Find the larger number.

- a) 84
- b) 96
- c) 132
- d) 168

10. A boat travels 36 km downstream in 3 hours and 24 km upstream in 4 hours. Find the speed of the stream.

- a) 2 km/h
- b) 3 km/h
- c) 4 km/h
- d) 5 km/h

11. The length of a rectangle increases by 25% and breadth decreases by 20%. Find the percentage change in area.

- a) No change
- b) 5% increase
- c) 4% decrease
- d) 10% decrease

12. The average of 15 numbers is 40. If 3 numbers 30, 40, and 50 are removed, find the new average.

- a) 38
- b) 39
- c) 40
- d) 41

13. A trader marks his goods 50% above cost price and allows successive discounts of 20% and 10%. Find the profit percentage.

- a) 8%
- b) 10%
- c) 12%
- d) 15%

14. If the radius of a circle increases by 20%, find the percentage increase in its area.

- a) 40%
- b) 42%
- c) 44%
- d) 48%

15. The present ages of A and B are in the ratio 4 : 5. After 8 years, the ratio becomes 5 : 6. Find A's present age.

- a) 24
- b) 32
- c) 40
- d) 48

Answers

1. Correct Answer: C

$$\text{Total} = 24 \times 50 = 1200$$

$$8 \rightarrow 336, 10 \rightarrow 560$$

$$\text{Remaining} = 1200 - (336 + 560) = 304$$

$$\text{Avg} = 304/6 = \mathbf{50.67}$$

2. Correct Answer: A

$$\text{Difference} = 9000 - 7200 = 1800 \text{ (3 yrs)}$$

$$1 \text{ yr} = 600$$

$$\text{Principal} = 7200 - 1200 = 6000$$

$$\text{Rate} = (600 \times 100)/6000 = \mathbf{10\%}$$

3. Correct Answer: D

$$\text{Numbers} = 5 \times 7 = 35, 9 \times 7 = 63$$

$$\text{Larger} = \mathbf{63}$$

4. Correct Answer: C

$$300/x - 300/(x+20) = 1$$

$$x = \mathbf{60 \text{ km/h}}$$

5. Correct Answer: B

$$CP/SP = 16/20$$

$$\text{Profit} = \mathbf{25\%}$$

6. Correct Answer: A

$$100 \rightarrow 125 \rightarrow 100 \rightarrow 120$$

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

7. Correct Answer: A

$$(10/20)(9/19) = 90/380 = 18/76 = \mathbf{9/38}$$

8. Correct Answer: A

$$\text{Original parts} = 5$$

$$1 \text{ part} = 5 \rightarrow \text{total} = \mathbf{25 \text{ L}}$$

9. Correct Answer: C

$$4 \text{ parts} = 48$$

$$1 \text{ part} = 12$$

$$\text{Larger} = 11 \times 12 = \mathbf{132}$$

10. Correct Answer: B

$$\text{Down} = 12$$

$$\text{Up} = 6$$

$$\text{Stream} = (12 - 6)/2 = \mathbf{3 \text{ km/h}}$$

11. Correct Answer: A

$$1.25 \times 0.8 = 1 \rightarrow \mathbf{\text{No change}}$$

12. Correct Answer: C

$$\text{Total} = 600$$

$$\text{Remove} = 120$$

$$\text{Remaining} = 480$$

$$\text{Avg} = 480/12 = \mathbf{40}$$

13. Correct Answer: A

$$100 \rightarrow 150$$

$$\text{After } 20\% \rightarrow 120$$

$$\text{After } 10\% \rightarrow 108$$

$$SP = 108$$

$$\text{Profit} = 108 - 100 = 8$$

$$\text{Profit \%} = (8/100) \times 100 = \mathbf{8\%}$$

14. Correct Answer: C

$$(1.2)^2 = 1.44 \rightarrow \mathbf{44\%}$$

15. Correct Answer: B

$$(4x+8)/(5x+8)=5/6$$

$$x=8$$

$$A = 4 \times 8 = \mathbf{32}$$