BLOGS

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

Adtiya Aryan · 26 May 2026

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) 9/38

b) 18/95

c) 5/19

d) 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

Total = 24×50 = 1200

8 → 336, 10 → 560

Remaining = 1200 − (336+560) = 304

Avg = 304/6 = **50.67**

2. Correct Answer: A

Difference = 9000 − 7200 = 1800 (3 yrs)

1 yr = 600

Principal = 7200 − 1200 = 6000

Rate = (600×100)/6000 = **10%**

3. Correct Answer: D

Numbers = 5×7 = 35, 9×7 = 63

Larger = **63**

4. Correct Answer: C

300/x − 300/(x+20) = 1

x = **60 km/h**

5. Correct Answer: B

CP/SP = 16/20

Profit = **25%**

6. Correct Answer: A

100 → 125 → 100 → 120

Increase = **20%**

7. Correct Answer: A

(10/20)(9/19) = 90/380 = 18/76 = **9/38**

8. Correct Answer: A

Original parts = 5

1 part = 5 → total = **25 L**

9. Correct Answer: C

4 parts = 48

1 part = 12

Larger = 11×12 = **132**

10. Correct Answer: B

Down = 12

Up = 6

Stream = (12−6)/2 = **3 km/h**

11. Correct Answer: A

1.25 × 0.8 = 1 → **No change**

12. Correct Answer: C

Total = 600

Remove = 120

Remaining = 480

Avg = 480/12 = **40**

13. Correct Answer: A

100 → 150

After 20% → 120

After 10% → 108

SP = 108

Profit = 108 − 100 = 8

Profit % = (8/100) × 100 = **8%**

14. Correct Answer: C

$(1.2)^2 = 1.44 \rightarrow$ **44%**

15. Correct Answer: B

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

x=8

A = 4×8 = **32**