BLOGS

# Sectional Test on Quantitative Techniques for CLAT UG [Part 23]

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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 30 numbers is 52. If the average of 10 numbers is 60 and that of another 12 numbers is 50, find the average of the remaining numbers.**

a. 40
b. 45
c. 50
d. 55

**2. A sum becomes ₹8,400 in 2 years and ₹9,600 in 4 years at simple interest. Find the rate.**

a. 10%
b. 12%
c. 15%
d. 20%

**3. The ratio of two numbers is 8:11 and their difference is 33. Find the smaller number.**

a. 88
b. 82
c. 80
d. 84

**4. A train 180 m long crosses a pole in 9 seconds. Find its speed in km/h.**

a. 60 km/h

b. 72 km/h

c. 80 km/h

d. 90 km/h

**5. If CP of 24 articles = SP of 20 articles, find profit %.**

a. 15%

b. 20%

c. 25%

d. 30%

**6. A number is increased by 50% and then decreased by 20%. What is the net change?**

a. 20% increase

b. 10% increase

c. No change

d. 5% increase

**7. Two balls are drawn without replacement from 4 red, 6 blue balls. Find probability both are red.**

a. 1/5

b. 2/15

c. 1/3

d. 4/15

**8. Milk = 3:2. If 10 L water is added, the ratio becomes 3:4. Find the original mixture.**

a. 25 L

b. 30 L

c. 35 L

d. 40 L

**9. Two numbers are in ratio 7:9 and their sum is 128. Find the larger number.**

a. 56

b. 64

c. 72

d. 80

**10. A boat goes 24 km downstream in 2 hrs and upstream in 4 hrs. Find the stream speed.**

a. 2 km/h

b. 3 km/h

c. 4 km/h

d. 5 km/h

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

a. No change

b. 5% decrease

c. 10% decrease

d. 15% decrease

**12. The average of 16 numbers is 40. Removing 2 numbers (30, 50), find the new average.**

a. 40

b. 39

c. 41

d. 38

**13. A trader marks his goods 25% above the CP and allows a discount of 20%. Find the profit %.**

a. 0%

b. 5%

c. 10%

d. 8%

**14. If a circle’s radius is increased by 10%, what will be the percentage increase in its area?**

a. 10%

b. 20%

c. 21%

d. 25%

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

a. 15

b. 20

c. 25

d. 30

## Answers

**1. Correct Answer:** B

Total = 30×52 = 1560

Known = 600 + 600 = 1200

Remaining = 360 → Avg = 360/8 = **45**

**2. Correct Answer:** C

2-year SI = 1200 → yearly = 600

Principal = 8400 − 1200 = 7200

Rate = (600×100)/7200 = **15%**

**3. Correct Answer:** A

3 parts = 33 → 1 part = 11

Smaller = 8×11 = **88**

**4. Correct Answer:** B

Speed = 180/9 = 20 m/s = **72 km/h**

**5. Correct Answer:** B

SP/CP = 24/20 = 1.2 → **20% profit**

**6. Correct Answer:** A

100 → 150 → 120 → **20% increase**

**7. Correct Answer:** B

(4/10)×(3/9) = 12/90 = **2/15**

**8. Correct Answer:** A

Water ↑ 2 parts = 10 → 1 part = 5

Total = 5 parts → **25 L**

**9. Correct Answer:** C

16 parts = 128 → 1 part = 8

Larger = 9×8 = **72**

**10. Correct Answer:** B

Down = 12, Up = 6

Stream = (12−6)/2 = **3 km/h**

**11. Correct Answer:** C

1.2 × 0.75 = 0.9 → **10% decrease**

**12. Correct Answer:** A

Total = 640

Remove = 80 → new total = 560

Avg = 560/14 = **40**

**13. Correct Answer:** A

1.25 × 0.8 = 1 → **no profit (0%)**

**14. Correct Answer:** C

$(1.1)^2 = 1.21$ → **21%**

**15. Correct Answer:** A

$(3x+5)/(4x+5)=⅘$

$15x+25=16x+20 \rightarrow x=5$

A = 3×5 = **15**