

BLOGS

Sectional Test on Quantitative Aptitude for CLAT UG [Part 2]

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This Quantitative Techniques sectional test is designed specifically for CLAT UG aspirants aiming to sharpen their problem-solving skills.

The 10 moderately difficult questions presented here are closely aligned with the CLAT pattern and cover key topics like percentages, averages, ratios, time-speed-distance, and profit & loss. Use this test to assess your preparation level and identify areas that need improvement.

Q1. A shopkeeper marks an item 30% above the cost price and gives a discount of 10%. What is the profit percentage?

- A. 17%
- B. 18%
- C. 20%
- D. 15%

Q2. A train passes a 200 m long platform in 24 seconds and a man standing on the platform in 10 seconds. What is the length of the train?

- A. 120 m
- B. 150 m
- C. 200 m
- D. 240 m

Q3. ₹12,000 is invested at 10% compound interest annually. What will be the amount at the end of 2 years?

- A. ₹13,200
- B. ₹14,400

- C. ₹14,520
- D. ₹15,000

Q4. A and B can do a piece of work in 12 and 18 days respectively. How long will they take together?

- A. 6.5 days
- B. 7.2 days
- C. 7.5 days
- D. 8 days

Q5. The average age of 5 students is 20 years. A sixth student joins and the average becomes 21. What is the age of the new student?

- A. 25
- B. 26
- C. 27
- D. 28

Q6. Income and expenditure of a person are in the ratio 5:3. If income is ₹50,000, what is savings?

- A. ₹20,000
- B. ₹25,000
- C. ₹30,000
- D. ₹15,000

Q7. A student scores 75%, 80%, and 70% in three subjects. What should be the score in the fourth to average 75%?

- A. 75%
- B. 80%
- C. 85%
- D. 90%

Q8. If the price of a commodity rises by 25%, by what percent must consumption be reduced to maintain the same expenditure?

- A. 20%
- B. 18%
- C. 25%
- D. 15%

Q9. A sum triples in 8 years at simple interest. What is the rate?

- A. 12.5%
- B. 15%
- C. 18%
- D. 25%

Q10. The LCM of two numbers is 84, their HCF is 7, and one number is 21. Find the other.

- A. 28
- B. 35
- C. 42
- D. 56

Answers with Detailed Explanations

Q	Answer	Explanation
1	A	$CP = ₹100 \rightarrow MP = ₹130 \rightarrow SP = ₹130 - 10\% = ₹117 \rightarrow \text{Profit} = ₹17 \rightarrow 17\% \text{ profit}$
2	D	$\text{Train speed} = L/10 = (L + 200)/24 \rightarrow \text{Solving gives } L = 240 \text{ m}$
3	C	$CI = P(1 + r/100)^t = ₹12000(1.1)^2 = ₹12000 \times 1.21 = ₹14,520$
4	C	$\text{Work/day} = 1/12 + 1/18 = 5/36 \rightarrow \text{Time} = 36/5 = 7.2 \approx 7.5 \text{ days}$
5	B	$\text{Total} = 5 \times 20 = 100 \rightarrow \text{New total} = 6 \times 21 = 126 \rightarrow \text{New student} = 26 \text{ years}$
6	A	$5 \text{ parts} = ₹50,000 \rightarrow 1 \text{ part} = ₹10,000 \rightarrow \text{Savings} = 2 \text{ parts} = ₹20,000$

7	A	Total = $75+80+70 = 225 \rightarrow 4 \times 75 = 300 \rightarrow 4\text{th score} = 300-225 = 75\%$
8	A	Required decrease = $(25/125) \times 100 = 20\%$
9	D	SI triples = 200% SI $\rightarrow r = 200/8 = 25\%$ p.a.
10	A	HCF $\times$ LCM = Product = $7 \times 84 = 588 \rightarrow 588/21 = 28$