

BLOGS

Sectional Test on Quantitative Techniques for CLAT UG [Part 9]

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1. A set of 14 numbers has an average of 36. Given that the first 6 numbers in this set average 30, what is the average value of the last 8 numbers?

- a) 38
- b) 39
- c) 40
- d) 42

2. An article is marked at ₹3,000, and the shopkeeper offers a 15% discount. Given that this transaction still yields a 20% profit, determine the article's cost price.

- a) ₹2,000
- b) ₹2,125
- c) ₹2,250
- d) ₹2,300

3. A class has a total of 288 students, with the ratio of boys to girls being 7:9. Determine the number of girls in the class.

- a) 144
- b) 162
- c) 168
- d) 180

4. What is the time required for a bus to travel 360 km if its speed is 60 km/h.

- a) 5 hours
- b) 6 hours
- c) 7 hours
- d) 8 hours

5. A group of five individuals has an average age of 28 years. When a new person is added to the group, the average age increases to 30 years. Determine the age of the newly joined person.

- a) 36 years
- b) 38 years
- c) 40 years
- d) 42 years

6. A square field has a perimeter of 112 m. Find its area.

- a) 676 sq m
- b) 784 sq m
- c) 900 sq m
- d) 1024 sq m

7. A town's population grew by 12% initially, followed by an additional 8% increase in the subsequent year. What is the total percentage change over the two years?

- a) 20%
- b) 20.96%
- c) 21%
- d) 22%

8. From a box containing 6 red, 9 blue, and 5 green balls, what is the probability of randomly selecting a ball that is blue?

- a) $\frac{3}{10}$
- b) $\frac{9}{20}$
- c) $\frac{2}{5}$
- d) $\frac{1}{4}$

9. A set of 18 numbers has an average of 50. When a single number is taken out, the average of the remaining numbers drops to 48. Determine the value of the number that was removed.

- a) 84
- b) 86
- c) 88

d) 90

10. A man spends 65% of his income. If his savings are ₹10,500, what is his income?

- a) ₹25,000
- b) ₹28,000
- c) ₹30,000
- d) ₹35,000

11. If 15 laborers finish a task in 16 days, what duration, in days, would it take 20 laborers to complete the identical task?

- a) 10 days
- b) 11 days
- c) 12 days
- d) 14 days

12. Two numbers are in the ratio 6 : 11. If their sum is 340, find the smaller number.

- a) 96
- b) 108
- c) 120
- d) 132

13. An article is sold at a loss of 12%. If its cost price is ₹2,500, what is the selling price?

- a) ₹2,100
- b) ₹2,150
- c) ₹2,200
- d) ₹2,250

14. What is the average speed of a train that travels the first half of its journey at a speed of 50 km/h and the second half at 100 km/h?

- a) 66.7 km/h
- b) 70 km/h
- c) 75 km/h
- d) 80 km/h

15. A student achieved an average score of 64 across 4 subjects. To elevate the overall average to 68, what score is needed in the fifth subject?

- a) 80
- b) 82
- c) 84
- d) 88

Answers

1. Correct Answer: C

$$\text{Total} = 14 \times 36 = 504$$

$$\text{First 6} = 6 \times 30 = 180$$

$$\text{Remaining} = 324$$

$$\text{Avg} = 324/8 = \mathbf{40}$$

2. Correct Answer: B

$$\text{SP} = 85\% \text{ of } 3000 = 2550$$

$$2550 = 120\% \text{ of CP}$$

$$\text{CP} = \mathbf{₹2125}$$

3. Correct Answer: C

$$\text{Total parts} = 16$$

$$1 \text{ part} = 18$$

$$\text{Girls} = 9 \times 18 = \mathbf{162}$$

4. Correct Answer: B

$$\text{Distance} = 45 \times 8 = 360$$

$$\text{Time} = 360/60 = \mathbf{6 \text{ hrs}}$$

5. Correct Answer: C

$$\text{Old total} = 5 \times 28 = 140$$

$$\text{New total} = 6 \times 30 = 180$$

$$\text{Age} = \mathbf{40 \text{ years}}$$

6. Correct Answer: B

$$\text{Side} = 112/4 = 28$$

$$\text{Area} = 28^2 = \mathbf{784 \text{ sq m}}$$

7. Correct Answer: B

$$\text{Net \%} = 12 + 8 + (12 \times 8)/100 = \mathbf{20.96\%}$$

8. Correct Answer: B

$$\text{Only blue} = 9$$

$$\text{Total} = 20$$

$$\text{Probability} = \mathbf{9/20}$$

9. Correct Answer: A

$$\text{Total} = 18 \times 50 = 900$$

$$\text{Remaining} = 17 \times 48 = 816$$

$$\text{Removed} = \mathbf{84}$$

10. Correct Answer: C

$$\text{Savings} = 35\% = 10500$$

$$\text{Income} = 10500 \times 100/35 = \mathbf{₹30000}$$

11. Correct Answer: C

$$\text{Work} = 15 \times 16 = 240$$

$$\text{Days} = 240/20 = \mathbf{12 \text{ days}}$$

12. Correct Answer: C

$$\text{Total parts} = 17 \rightarrow 1 \text{ part} = 20$$

$$\text{Smaller} = 6 \times 20 = \mathbf{120}$$

13. Correct Answer: C

$$\text{SP} = 88\% \text{ of } 2500 = \mathbf{₹2200}$$

14. Correct Answer: A

$$\text{Average speed} = 2ab/(a+b) = \mathbf{66.7 \text{ km/h}}$$

15. Correct Answer: C

$$\text{Needed total} = 5 \times 68 = 340$$

$$\text{Current} = 4 \times 64 = 256$$

$$\text{Marks needed} = \mathbf{84}$$