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) 3/10

b) 9/20

c) ⅖

d) ¼

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

Total = 14×36 = 504

First 6 = 6×30 = 180

Remaining = 324

Avg = 324/8 = **40**

2. Correct Answer: B

SP = 85% of 3000 = 2550

2550 = 120% of CP

CP = **₹2125**

3. Correct Answer: C

Total parts = 16

1 part = 18

Girls = 9×18 = **162**

4. Correct Answer: B

Distance = 45×8 = 360

Time = 360/60 = **6 hrs**

5. Correct Answer: C

Old total = 5×28 = 140

New total = 6×30 = 180

Age = **40 years**

6. Correct Answer: B

Side = 112/4 = 28

Area = 28^2 = **784 sq m**

7. Correct Answer: B

Net % = 12 + 8 + (12×8)/100 = **20.96%**

8. Correct Answer: B

Only blue = 9

Total = 20

Probability = **9/20**

9. Correct Answer: A

Total = 18×50 = 900

Remaining = 17×48 = 816

Removed = **84**

10. Correct Answer: C

Savings = 35% = 10500

Income = 10500×100/35 = ₹**30000**

11. Correct Answer: C

Work = 15×16 = 240

Days = 240/20 = **12 days**

12. Correct Answer: C

Total parts = 17 → 1 part = 20

Smaller = 6×20 = **120**

13. Correct Answer: C

SP = 88% of 2500 = ₹**2200**

14. Correct Answer: A

Average speed = 2ab/(a+b) = **66.7 km/h**

15. Correct Answer: C

Needed total = 5×68 = 340

Current = 4×64 = 256

Marks needed = **84**