BLOGS

Sectional Test on Quantitative Techniques for CLAT UG [Part 6]

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1. A class of 12 students initially had an average score of 68. Determine the accurate class average, given that one student's score was mistakenly logged as 92 instead of the correct score of 62.

a. 65

b. 66

c. 67

d. 68

2. An article is marked at ₹2,500. A 10% discount is offered on this price. If the shopkeeper still achieves a 25% profit after the discount, what is the cost price of the article?

a. ₹1,600

b. ₹1,700

c. ₹1,800

d. ₹2,000

3. The ratio of boys to girls in a school is 4 : 5. If there are 540 girls, how many boys are there?

a. 360

b. 432

c. 498

d. 600

4. A train travels 480 km. If its speed were 20 km/h faster, the trip would be 2 hours shorter. Determine the train's initial speed.

a. 40 km/h

b. 60 km/h

c. 80 km/h

d. 100 km/h

5. Four friends have an average age of 22 years. When a fifth person joins the group, the average age increases to 24 years. Determine the age of the new friend.

a. 28 years

b. 30 years

c. 35 years

d. 32 years

6. The length of a rectangle is three times its breadth. If its perimeter is 160 cm, find its area.

a. 1200 sq cm

b. 1600 sq cm

c. 1800 sq cm

d. 2400 sq cm

7. The population of a city increases by 25% in the first year and then decreases by 20% in the second year. What is the net percentage change in population?

a. No change

b. 5% increase

c. 5% decrease

d. 10% increase

8. In a box containing a total of 9 green, 6 yellow, and 5 blue balls, what is the probability of randomly selecting a ball that is not blue?

a. ¼

b. ¾

c. ⅘

d. ⅚

9. The average of a set of 15 numbers is 40. When a single number is taken away from this set, the average of the remaining numbers drops to 38. Determine the value of the number that was removed.

a. 68

b. 65

c. 60

d. 72

10. A man spends 60% of his income. If his savings amount to ₹12,000, what is his total income?

a. ₹20,000

b. ₹25,000

c. ₹40,000

d. ₹30,000

11. A cyclist travels 72 km in 4 hours. What is his speed in m/s (approximately)?

a. 4 m/s

b. 5 m/s

c. 6 m/s

d. 8 m/s

12. Two numbers are in the ratio 3 : 7. If their sum is 200, find the larger number.

a. 120

b. 130

c. 140

d. 160

13. To finish a particular job, 15 workers require 24 days. If the workforce is increased to 20 workers, how many days will be needed to complete that same job?

a. 12 days

b. 15 days

c. 17 days

d. 18 days

14. The cost price of an article is ₹800. It is sold at a loss of 10%. What is the selling price?

a. ₹700

b. ₹720

c. ₹740

d. ₹760

15. A man's average daily expenditure over a week (7 days) was ₹450. Given that his spending on one of those days was ₹300, determine his average daily expenditure for the other 6 days.

a. ₹460

b. ₹470

c. ₹475

d. ₹500

Answers

1. Correct Answer: C

Wrong total = 12 × 68 = 816

Extra added = 92 − 62 = 30

Correct total = 816 – 30 = 786

Average = 786/12 = **67**

2. Correct Answer: C

SP after discount = 90% of 2500 = 2250

2250 = 125% of CP

CP = 2250/125 × 100 = **₹1800**

3. Correct Answer: B

Let Girls = 5x and Boys = 4x

5x = 540 → x = 540/5 = 108

Boys = 4x = 4 × 108 = **432**

4. Correct Answer: B

480/x − 480/(x+20) = 2

x = **60 km/h**

5. Correct Answer: D

Old total = 4 × 22 = 88

New total = 5 × 24 = 120

Age = 120 − 88 = **32 years**

6. Correct Answer: B

Breadth = x, Length = 3x

Perimeter = 8x = 160 → x = 20

Area = 20 × 60 = **1600 sq cm**

7. Correct Answer: B

Net % = +25 − 20 − (25×20)/100 = **5% increase**

8. Correct Answer: C

Total balls = 20

Not blue = 15

Probability = 15/20 = **⅘**

9. Correct Answer: A

Total = 15 × 40 = 600

New total = 14 × 38 = 532

Removed number = 600 − 532 = **68**

10. Correct Answer: D

Savings = 40% = 12,000

Income = 12,000 × 100/40 = **₹30,000**

11. Correct Answer: B

Speed = 18 km/h

= 18 × 5/18 = **5 m/s**

12. Correct Answer: C

Total parts = 10 → 1 part = 20

Larger = 7 × 20 = **140**

13. Correct Answer: D

15 × 24 = 20 × x → x = **18 days**

14. Correct Answer: B

SP = 90% of 800 = **₹720**

15. Correct Answer: C

Total = 7 × 450 = 3150

Remaining total = 3150 − 300 = 2850

Average = 2850/6 = **₹475**