

BLOGS

Sectional Test on Quantitative Techniques for CLAT UG [Part 10]

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1. The average of 12 numbers is 48. If one number is replaced by another number which is 24 more than the original, what is the new average?

- a) 50
- b) 48
- c) 49
- d) 52

2. An article is sold for ₹2,160 at a profit of 20%. What is its cost price?

- a) ₹1,700
- b) ₹1,800
- c) ₹1,900
- d) ₹2,000

3. The ratio of boys to girls in a school is 3 : 5. If there are 640 students in total, how many girls are there?

- a) 200
- b) 300
- c) 400
- d) 500

4. A train covers 420 km in 7 hours. What is its speed in m/s?

- a) 15 m/s
- b) 16.67 m/s
- c) 18 m/s
- d) 20 m/s

5. The perimeter of a rectangle is 100 m. If its length is 3 times its breadth, find its area.

- a) 600 sq m
- b) 625 sq m
- c) 700 sq m
- d) 750 sq m

6. What is the overall change in a town's population if it grows by 10% in the first year and then declines by 10% in the subsequent year?

- a) No change
- b) 1% decrease
- c) 2% increase
- d) 1% increase

7. A single ball is randomly selected from a container holding 5 red, 7 blue, and 8 green balls. Calculate the probability that the chosen ball is green.

- a) $\frac{2}{5}$
- b) $\frac{4}{5}$
- c) $\frac{8}{20}$
- d) $\frac{1}{4}$

8. A group of six individuals has an average age of 34 years. If a seventh person is added to the group, the new average age increases to 36 years. Determine the age of the newly joined person.

- a) 42 years
- b) 48 years
- c) 46 years
- d) 50 years

9. Two numbers are in the ratio 4 : 9. If their difference is 55, what is the larger number?

- a) 80
- b) 90
- c) 99
- d) 110

10. The marked price of an article is ₹2,500. A shopkeeper offers a 20% discount on this price, yet still achieves a 25% profit. Determine the original cost price of the article.

- a) ₹1,500
- b) ₹1,600
- c) ₹1,700
- d) ₹1,800

11. How long would it take 15 workers to complete a job that 9 workers can finish in 20 days?

- a) 10 days
- b) 12 days
- c) 14 days
- d) 15 days

12. Given a set of 15 observations with an average of 28, and knowing that the average of the initial 9 of these observations is 24, determine the average value of the last 6 observations.

- a) 30
- b) 32
- c) 34
- d) 36

13. A man saves 30% of his income. If his savings are ₹9,000, what is his income?

- a) ₹27,000
- b) ₹30,000
- c) ₹32,000
- d) ₹35,000

14. What is the average speed of a car that completes the first half of a trip at 40 km/h and the remaining half at 80 km/h?

- a) 53.3 km/h
- b) 55 km/h
- c) 58 km/h
- d) 60 km/h

15. The cost price of an article is ₹1,200. It is sold at a loss of 15%. What is the selling price?

- a) ₹980
- b) ₹1,000
- c) ₹1,020
- d) ₹1,050

Answers

1. Correct Answer: A

Increase in total = 24

$$\text{New avg} = (48 \times 12 + 24) / 12 = \mathbf{50}$$

2. Correct Answer: B

$$\text{CP} = 2160 / 120 \times 100 = \mathbf{₹1800}$$

3. Correct Answer: C

$$\text{Girls} = (5/8) \times 640 = \mathbf{400}$$

4. Correct Answer: B

$$\text{Speed} = 420 / 7 = 60 \text{ km/h} = \mathbf{16.67 \text{ m/s}}$$

5. Correct Answer: B

$$\text{Given Length} = 3 \times \text{Breadth}$$

$$\text{So, } 4 \text{ Breadth} = 50$$

$$\text{Breadth} = 12.5 \text{ m}$$

$$\text{Length} = 3 \times 12.5 = 37.5 \text{ m}$$

$$\text{Area} = \text{Length} \times \text{Breadth} = 37.5 \times 12.5 = \mathbf{625 \text{ sq m}}$$

6. Correct Answer: B

$$\text{Net \%} = -(10 \times 10) / 100 = \mathbf{-1\%}$$

7. Correct Answer: A

$$\text{Green} = 8$$

$$\text{Total} = 20$$

$$\text{Probability} = 8 / 20 = \mathbf{2/5}$$

8. Correct Answer: B

$$\text{Original total} = 6 \times 34 = 204$$

$$\text{New total} = 7 \times 36 = 252$$

Age added = **48 years**

9. Correct Answer: C

$$5x = 55$$

$$x = 11$$

$$\text{larger} = \mathbf{99}$$

10. Correct Answer: B

$$SP = 2000$$

$$CP = 2000/125 \times 100 = \mathbf{₹1600}$$

11. Correct Answer: B

$$9 \times 20 = 15 \times x$$

$$x = \mathbf{12 \text{ days}}$$

12. Correct Answer: C

$$\text{Remaining avg} = (420 - 216)/6 = \mathbf{34}$$

13. Correct Answer: B

$$\text{Income} = 9000 \times 100/30 = \mathbf{₹30,000}$$

14. Correct Answer: A

$$\text{Avg speed} = 2ab/(a+b) = \mathbf{53.3 \text{ km/h}}$$

15. Correct Answer: C

$$SP = 85\% \text{ of } 1200 = \mathbf{₹1020}$$