BLOGS

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

Adtiya Aryan · 24 Feb 2026

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) ⅖

b) ⅘

c) 8/20

d) ¼

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

New avg = (48×12 + 24)/12 = **50**

2. Correct Answer: B

CP = 2160/120 × 100 = **₹1800**

3. Correct Answer: C

Girls = (5/8) × 640 = **400**

4. Correct Answer: B

Speed = 420/7 = 60 km/h = **16.67 m/s**

5. Correct Answer: B

Given Length = 3 × Breadth

So, 4 Breadth = 50

Breadth = 12.5 m

Length = 3 × 12.5 = 37.5 m

Area = Length × Breadth = 37.5 × 12.5 = **625 sq m**

6. Correct Answer: B

Net % = −(10×10)/100 = **−1%**

7. Correct Answer: A

Green = 8

Total = 20

Probability = 8/20 = ⅖

8. Correct Answer: B

Original total = 6 × 34 = 204

New total = 7 × 36 = 252

Age added = **48 years**

9. Correct Answer: C

5x = 55

x = 11

larger = **99**

10. Correct Answer: B

SP = 2000

CP = 2000/125×100 = **₹1600**

11. Correct Answer: B

9×20 = 15×x

x = **12 days**

12. Correct Answer: C

Remaining avg = (420 − 216)/6 = **34**

13. Correct Answer: B

Income = 9000 × 100/30 = **₹30,000**

14. Correct Answer: A

Avg speed = 2ab/(a+b) = **53.3 km/h**

15. Correct Answer: C

SP = 85% of 1200 = **₹1020**