BLOGS

Sectional Test on Quantitative Techniques for CLAT UG [Part 11]

Adtiya Aryan · 16 Mar 2026

1. The average of 8 numbers is 42. If one number is increased by 16, what is the new average?

a) 44

b) 42

c) 40

d) 46

2. A shop owner increases an article's price by 25% over its cost price before offering a 20% discount. Find the net profit or loss percentage.

a) 5% loss

b) No profit no loss

c) 10% profit

d) 15% profit

3. Two numbers are in the ratio 7 : 11 and their sum is 324. What is the larger number?

a) 126

b) 154

c) 198

d) 176

4. A car travels the first 60 km at 30 km/h and the next 60 km at 60 km/h. What is the average speed of the car?

a) 40 km/h

b) 45 km/h

c) 48 km/h

d) 36 km/h

5. If 12 men can complete a work in 15 days, how many days will 10 men take?

a) 16

b) 18

c) 20

d) 22

6. The selling price of an article is ₹1,320 after a loss of 12%. What is its cost price?

a) ₹1,400

b) ₹1,500

c) ₹1,200

d) ₹1,600

7. Out of a total of 20 balls (4 white, 5 black, and 11 red) in a bag, one ball is randomly selected. Determine the likelihood that the chosen ball is not red.

a) 9/20

b) 11/20

c) 4/20

d) 5/20

8. Five students have an average age of 16 years. If a teacher is included, the new average age rises to 20 years. Determine the age of the teacher.

a) 36

b) 40

c) 44

d) 50

9. Two trains start from the same point in opposite directions at speeds of 54 km/h and 36 km/h. How far apart will they be after 10 minutes?

a) 10 km

b) 12 km

c) 15 km

d) 18 km

10. A sum amounts to ₹2,420 in 2 years at 10% simple interest. What is the principal?

a) ₹2,000

b) ₹2,200

c) ₹2,100

d) ₹1,800

11. If the side of a square is increased by 20%, by what percentage does its area increase?

a) 20%

b) 40%

c) 44%

d) 48%

12. The mean of 15 data points is 30. Given that the mean of the initial 9 data points is 26, calculate the mean of the final 6 data points.

a) 34

b) 36

c) 38

d) 40

13. A mixture of milk and water has a ratio of 5:3. When 16 litres of water are added, the ratio changes to 5:7. Determine the starting quantity of the mixture.

a) 32 litres

b) 40 litres

c) 48 litres

d) 56 litres

14. A number when divided by 5 leaves a remainder 2. What will be the remainder when its square is divided by 5?

a) 1

b) 2

c) 4

d) 0

15. The ratio of the present ages of A and B is 4 : 5. After 8 years, the ratio becomes 6 : 7. What is A’s present age?

a) 24

b) 32

c) 40

d) 48

Correct Answers with their Explanation

1. Correct Answer: A

Increase in total = 16

New average = 42 + (16/8) = 44

2. Correct Answer: B

125% × 80% = 100% → No gain, no loss

3. Correct Answer: C

Total parts = 18

1 part = 324/18 = 18

Larger = 11 × 18 = 198

4. Correct Answer: A

Total distance = 120 km

Total time = 3 hrs

Avg speed = 120/3 = 40 km/h

5. Correct Answer: B

Men × Days = Men × Days

12×15 = 10×x

x = 18 days

6. Correct Answer: B

CP = 1320/0.88 = ₹1500

7. Correct Answer: A

Non-red = 4 + 5 = 9

Total = 20

Probability = 9/20

8. Correct Answer: B

Old total = 5×16 = 80

New total = 6×20 = 120

Teacher's age = 120 − 80 = 40

9. Correct Answer: C

Relative speed = 54 + 36 = 90 km/h

Time = 10 min = 1/6 hr

Distance = 90 × 1/6 = 15 km

10. Correct Answer: A

SI = 20%

2420 = 120%

Principal = 2420 × 100 / 120 = ₹2000

11. Correct Answer: C

Area ∝ side²

Increase = $(1.2)^2 - 1 = 1.44 - 1 = 44\%$

12. Correct Answer: B

Total = 15×30 = 450

First 9 total = 9×26 = 234

Remaining = 216

Average = 216/6 = 36

13. Correct Answer: A

Milk constant

Water increases from 3 parts to 7 parts → increase = 4 parts = 16 L

1 part = 4 L

Total original parts = 8

Quantity = 8 × 4 = 32 litres

14. Correct Answer: C

Number = 5k + 2

Squaring it: $(5k+2)^2 = 25k^2 + 20k + 4$

Remainder = 4

15. Correct Answer: B

Let ages = 4x and 5x

(4x+8)/(5x+8) = 6/7

Cross-multiply → x = 8

A = 4×8 = 32