BLOGS

Sectional Test on Quantitative Techniques for CLAT UG [Part 3]

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1. A town’s population was 40,000 in 2023. It saw a 10% increase in 2024, followed by a 10% decrease in 2025. Determine the town’s population at the end of 2025.

1. 40,000
2. 39,600
3. 40,400
4. 41,000

1. The ratio of boys to girls in a school is 3 : 5. If there are 240 students in total, how many boys are there?

1. 90
2. 120
3. 150
4. 180

1. Five students have an average score of 102. If one of the students achieved a score of 110, what is the new average score for the other four students?

1. 95
2. 83
3. 100
4. 46

1. A shopkeeper marks the price of a jacket at ₹4,000. He allows a discount of 25% during a seasonal sale. What is the selling price of the jacket after the discount?

1. ₹2500
2. ₹3000

3. ₹3200
4. ₹3500

1. A cyclist travels 45 km upstream in 3 hours and returns downstream in 2 hours. What is the speed of the current?

1. 3 km/h
2. 4 km/h
3. 3.5 km/h
4. 3.75 km/h

1. A man spends 40% of his income on rent and 30% on food. Given that the remaining amount, which is ₹9,000 and covers all other expenses, what is his total monthly income?

1. ₹15,000
2. ₹18,000
3. ₹30,000
4. ₹25,000

1. A commodity’s price has risen from ₹200 to ₹250. Calculate the percentage increase.

1. 20%
2. 22.5%
3. 25%
4. 30%

1. A student scored 65 marks out of 100 in English and 78 marks out of 120 in Mathematics. In which subject did the student score a higher percentage?

1. English
2. Mathematics
3. Same in both
4. Cannot be determined

1. Assuming all workers have the same efficiency, if 8 workers can finish a task in 15 days, in how many days can 12 workers complete the same task?

1. 8 days
2. 10 days
3. 12 days
4. 15 days

1. A group of six people has an average age of 30 years. When an additional person joins the group, the new average age for all seven individuals rises to 32 years. Determine the age of the seventh person who joined the group.

1. 44 years
2. 42 years
3. 40 years
4. 46 years

1. If the perimeter of a square is 72 cm, what is its area?

1. 196 sq cm
2. 225 sq cm
3. 256 sq cm
4. 324 sq cm

1. If the cost price of 15 pens is equal to the selling price of 12 pens, what is the gain percentage?

1. 20%
2. 25%
3. 30%
4. 35%

1. A government planned to distribute free tablets to students. Due to budget constraints, it reduced the number of tablets by 20%, but increased the price per tablet by 25%. As a result, the total expenditure remained unchanged. If the original plan was to buy 4,000 tablets, how many tablets were actually purchased after the change?

1. 3000
2. 3200

3. 3500
4. 3800

1. A college library has a special shelf containing 4 law journals, 3 economics magazines, and 5 newspapers. One reading material is selected at random from the shelf. What is the probability that the selected item is neither a law journal nor a newspaper?

1. ½
2. ⅙
3. ¼
4. ⅓

1. 75% of the students in a class successfully passed an exam. Given that 15 students did not pass the exam, what is the total enrollment of the class?

1. 40
2. 50
3. 60
4. 75

Answers with Explanations

1. Correct Answer: 2

Increase by 10% → 40,000 × 1.1 = 44,000

Decrease by 10% → 44,000 × 0.9 = **39,600**

1. Correct Answer: 1

Total parts = 3 + 5 = 8

Each part = 240/8 = 30

Boys = 3 × 30 = **90**

1. Correct Answer: 3

Total marks = 5 × 102 = 510

Remaining marks = 510 − 110 = 400

Average = 400/4 = **100**

1. Correct Answer: 2

25% of 4000 = 1000 (discount offered)

Selling price = 4000 − 1000 = **₹3,000**

1. Correct Answer: 4

Upstream speed = 45/3 = 15 km/h

Downstream speed = 45/2 = 22.5 km/h

Current speed = (22.5 − 15) / 2 = **3.75 km/h**

1. Correct Answer: 3

Spent = 70%, remaining = 30%

30% = 9000 → 100% = 9000 / 30 × 100 = **₹30,000**

1. Correct Answer: 3

Increase = 50 (250-200)

Percentage = (50/200) × 100 = **25%**

1. Correct Answer: 3

English = 65/100 × 100 = 65%

Mathematics = (78/120) × 100 = 65%

1. Correct Answer: 2

Original no. of workers × Original no. of days = New no. of workers × New no. of days

8 × 15 = 12 × x

x = **10 days**

1. Correct Answer: 1

Original total age = 6 × 30 = 180

New total age = 7 × 32 = 224

Age of the 7th member= 224 − 180 = **44 years**

1. Correct Answer: 4

Side = 72 ÷ 4 = 18

Area = 18^2 = **324**

1. Correct Answer: 2

Cost Price of 15 pens = Selling Price of 12 pens

Gain on 12 pens = Cost Price of 3

Gain% = (3/12) × 100 = **25%**

1. Correct Answer: 2

Reduction of 20% in quantity of tablets means that 80% of tablets were actually purchased.

So, 80% of 4,000 = **3,200**

1. Correct Answer: 3

Total items = 4 + 3 + 5 = 12

Neither law journal nor newspaper = only economics magazines = 3

Probability = 3/12 = **¼**

15.Correct Answer: 3

Percentage of students who failed = 25% = 15 (given)

Total strength of the class = 100% = 15 × 100/25 = 15 × 4 = **60 students**