

CLAT Quantitative Techniques

Sample Paper – 9

Duration: 12 Minutes

Maximum Marks: 12

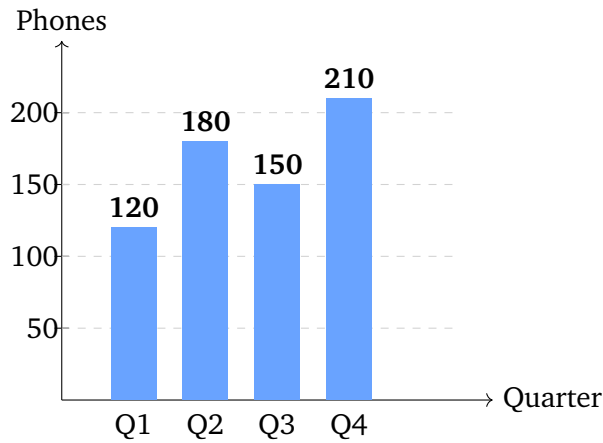
Instructions

- This paper contains **12** Multiple Choice Questions (Single Correct Answer), modelled on the Quantitative Techniques section of **CLAT** (Common Law Admission Test).
- Each correct answer carries **+1 mark**. There is a **negative marking of 0.25 marks** for every incorrect answer; unattempted questions carry no penalty.
- The paper has **three data sets**, each giving information as a graph, table, or short passage, followed by **four** questions. Derive the figures from the set and apply elementary mathematics (up to **Class 10** level) to answer.
- CLAT is an offline pen-and-paper (OMR) test with no sectional time limit; attempt this practice paper in one timed sitting of about **12 minutes**.
- Use of calculators, mobile phones, and other electronic gadgets is strictly prohibited; do the arithmetic by hand.

Data Set I

Directions (Q1–Q4): The bar chart below shows the number of mobile phones sold by a shop over four quarters (Q1–Q4) of a year. Study it and answer the questions that follow.





- Q1.** What is the total number of mobile phones sold by the shop over the four quarters?
- (A) 640
(B) 680
(C) 620
(D) 660
- Q2.** What is the average number of phones sold per quarter over the four quarters?
- (A) 165
(B) 160
(C) 170
(D) 155
- Q3.** The number of phones sold in Q2 is what percent more than the number sold in Q1?
- (A) 40%
(B) 60%
(C) 50%
(D) 45%
- Q4.** What is the ratio of the phones sold in Q1 to the phones sold in Q4?



- (A) 7 : 4
- (B) 5 : 6
- (C) 4 : 7
- (D) 3 : 5

Data Set II

Directions (Q5–Q8): The table below shows the number of matches won and lost by four teams in a league season. Study it and answer the questions that follow.

Team	Won	Lost	Played
Titans	12	8	20
Warriors	15	5	20
Kings	9	11	20
Strikers	14	6	20

- Q5.** What is the total number of matches won by the four teams taken together?
- (A) 48
 - (B) 52
 - (C) 45
 - (D) 50
- Q6.** Which team won the greatest number of matches?
- (A) Titans
 - (B) Warriors
 - (C) Kings
 - (D) Strikers
- Q7.** What is the ratio of matches won to matches lost by Titans?
- (A) 3 : 2
 - (B) 2 : 3
 - (C) 3 : 4



(D) 4 : 3

Q8. What is the average number of matches won per team?

(A) 12

(B) 13

(C) 12.5

(D) 11.5

Data Set III

Directions (Q9–Q12): Read the following information carefully and answer the questions that follow.

A tailor named Imran runs a stitching shop. He marked a coat at **Rs 1200** and sold it after a discount, receiving **Rs 900**. Out of **40 shirts** he stitched last week, **8** were returned for alterations. Over four days he stitched **10, 14, 12 and 8** garments. He also deposited **Rs 6000** in a bank that pays **simple interest at 5% per annum** for **2 years**.

Q9. What percent discount did Imran give on the marked price of the coat?

(A) 20%

(B) 30%

(C) 15%

(D) 25%

Q10. What percent of the shirts he stitched last week were returned for alterations?

(A) 20%

(B) 25%

(C) 15%

(D) 10%

Q11. What is the average number of garments he stitched per day over the four days?



- (A) 10
- (B) 11
- (C) 12
- (D) 13

Q12. How much simple interest will he earn on his deposit at the end of two years?

- (A) Rs 500
- (B) Rs 600
- (C) Rs 700
- (D) Rs 800



Detailed Solutions

Q1.

Solution

Concept – reading a bar chart and adding values: Read the height of each bar and add them.

Step 1 – list the quarterly sales: Q1 = 120, Q2 = 180, Q3 = 150, Q4 = 210.

Step 2 – add them: $120 + 180 = 300$. $300 + 150 = 450$. $450 + 210 = 660$.

Why the other options are wrong:

- Options A, B, C: 640, 680 and 620 each drop or mis-add one bar; the correct sum is 660.

Final Answer: Total = 660 phones \Rightarrow

Answer: (D) [Go Back to Q1](#)

Q2.

Solution

Concept – average: $\text{Average} = \frac{\text{total}}{\text{number of items}}$.

Step 1 – total sales: From Q1, the total over the four quarters = 660 phones.

Step 2 – divide by the number of quarters: $\text{Average} = \frac{660}{4} = 165$ phones.

Why the other options are wrong:

- Options B, C, D: 160, 170 and 155 do not equal $660 \div 4$; only 165 does.

Final Answer: Average = 165 phones per quarter \Rightarrow

Answer: (A) [Go Back to Q2](#)

Q3.

Solution

Concept – percentage increase: $\text{Percent increase} = \frac{\text{increase}}{\text{original}} \times 100$, with Q1 as the original.

Step 1 – find the increase: Q2 = 180, Q1 = 120, so the increase = $180 - 120 = 60$.



Step 2 – divide by the Q1 value and convert to percent: $\frac{60}{120} \times 100 = 50\%$.

Why the other options are wrong:

- Option A (40%): understates the increase.
- Option B (60%): that is the raw increase in phones, not a percentage.
- Option D (45%): does not match $60/120 \times 100$.

Final Answer: Increase = 50% \Rightarrow C

Answer: (C) [Go Back to Q3](#)

Q4.

Solution

Concept – ratio: Write the two quantities and reduce to lowest terms.

Step 1 – write the ratio: Q1 = 120, Q4 = 210, so the ratio is 120 : 210.

Step 2 – reduce: Divide both by 30: 120 : 210 = 4 : 7.

Why the other options are wrong:

- Option A (7:4): reverses the order.
- Options B, D: 5:6 and 3:5 do not match 120 : 210.

Final Answer: Ratio = 4 : 7 \Rightarrow C

Answer: (C) [Go Back to Q4](#)

Q5.

Solution

Concept – reading a table column total: Add the “Won” column across all teams.

Step 1 – list the wins: Titans = 12, Warriors = 15, Kings = 9, Strikers = 14.

Step 2 – add them: $12 + 15 = 27$; $27 + 9 = 36$; $36 + 14 = 50$.

Why the other options are wrong:

- Options A, B, C: 48, 52 and 45 each miss part of a team’s wins; the four win-counts sum to 50.

Final Answer: Total won = 50 matches \Rightarrow D

Answer: (D) [Go Back to Q5](#)



Q6.

Solution

Concept – comparing a column: Compare the “Won” entries and pick the largest.

Step 1 – list the wins: Titans = 12, Warriors = 15, Kings = 9, Strikers = 14.

Step 2 – pick the highest: The largest is 15, which belongs to Warriors.

Why the other options are wrong:

- Option A (Titans = 12), Option C (Kings = 9), Option D (Strikers = 14): all are fewer than 15.

Final Answer: Warriors won the most matches \Rightarrow **B**

Answer: (B) [Go Back to Q6](#)

Q7.

Solution

Concept – ratio of two entries: Write won : lost for Titans and reduce.

Step 1 – read the values: Titans won = 12, lost = 8, so the ratio is 12 : 8.

Step 2 – reduce: Divide both by 4: 12 : 8 = 3 : 2.

Why the other options are wrong:

- Option B (2:3): reverses the order.
- Options C, D: 3:4 and 4:3 do not match 12 : 8.

Final Answer: Won : Lost = 3 : 2 \Rightarrow **A**

Answer: (A) [Go Back to Q7](#)

Q8.

Solution

Concept – average: Average wins per team = $\frac{\text{total wins}}{\text{number of teams}}$.

Step 1 – use the total: Total wins = 50 (from Q5) across 4 teams.

Step 2 – divide: $\frac{50}{4} = 12.5$.

Why the other options are wrong:



- Options A, B, D: 12, 13 and 11.5 do not equal $50 \div 4$; only 12.5 does.

Final Answer: Average = 12.5 wins per team \Rightarrow

Answer: (C) [Go Back to Q8](#)

Q9.

Solution

Concept – discount percent: $\text{Discount}\% = \frac{\text{marked price} - \text{selling price}}{\text{marked price}} \times 100.$

Step 1 – find the discount amount: Discount = $1200 - 900 = 300.$

Step 2 – divide by the marked price and convert: $\frac{300}{1200} \times 100 = 25\%.$

Why the other options are wrong:

- Options A, B, C: 20%, 30% and 15% do not equal $300/1200 \times 100$; the discount is exactly 25%.

Final Answer: Discount = 25% \Rightarrow

Answer: (D) [Go Back to Q9](#)

Q10.

Solution

Concept – percentage of a total: $\text{Percent} = \frac{\text{part}}{\text{whole}} \times 100.$

Step 1 – identify part and whole: Returned = 8, total stitched = 40.

Step 2 – compute: $\frac{8}{40} \times 100 = 20\%.$

Why the other options are wrong:

- Options B, C, D: 25%, 15% and 10% do not equal $8/40 \times 100$; the returned share is 20%.

Final Answer: Returned = 20% \Rightarrow

Answer: (A) [Go Back to Q10](#)



Q11.

Solution

Concept – average: $\text{Average} = \frac{\text{total}}{\text{number of days}}$

Step 1 – add the daily counts: $10 + 14 = 24$; $24 + 12 = 36$; $36 + 8 = 44$.

Step 2 – divide by the number of days: $\frac{44}{4} = 11$.

Why the other options are wrong:

- Options A, C, D: 10, 12 and 13 do not equal $44 \div 4$; only 11 does.

Final Answer: Average = 11 garments per day \Rightarrow **B**

Answer: (B) [Go Back to Q11](#)

Q12.

Solution

Concept – simple interest: $SI = \frac{P \times R \times T}{100}$

Step 1 – put in the values: $P = 6000$, $R = 5$, $T = 2$.

Step 2 – compute: $\frac{6000 \times 5 \times 2}{100} = \frac{60000}{100} = 600$.

Why the other options are wrong:

- Option A (Rs 500): does not match the formula.
- Option C (Rs 700), Option D (Rs 800): overstate the interest; the correct value is Rs 600.

Final Answer: Interest = Rs 600 \Rightarrow **B**

Answer: (B) [Go Back to Q12](#)



Answer Key

Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	D	2	A	3	C	4	C	5	D
6	B	7	A	8	C	9	D	10	A
11	B	12	B						

