

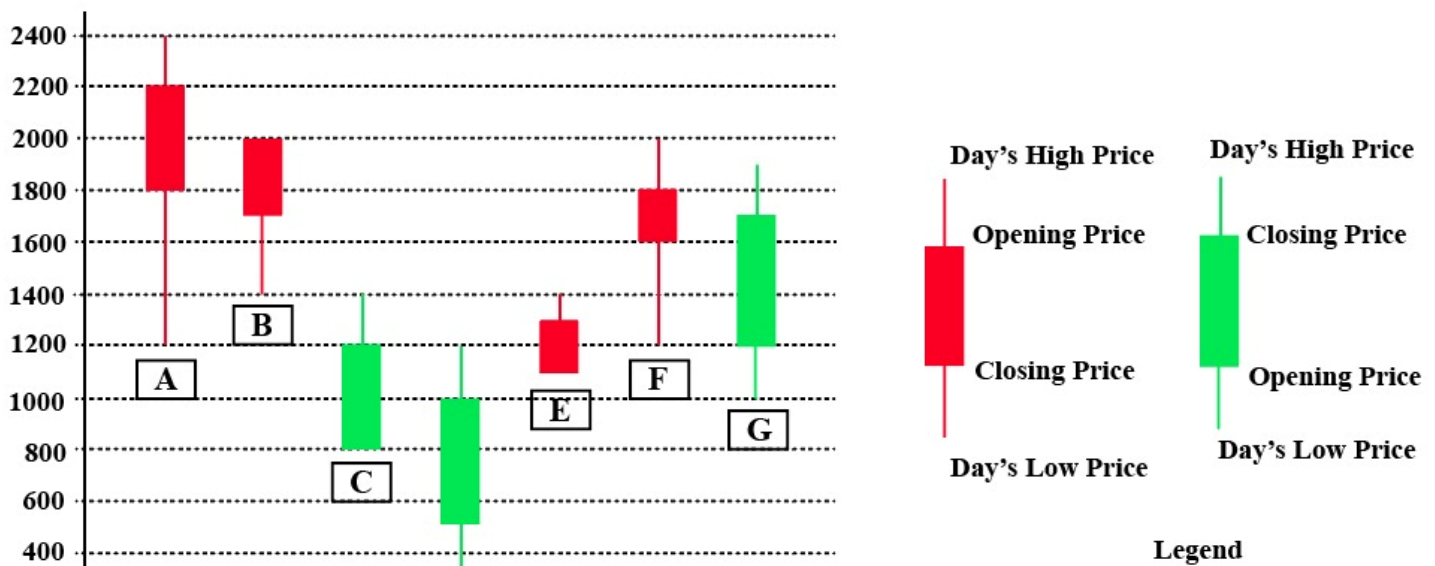
Mock Test 9

Logical Reasoning & Data Interpretation LRDI Set-9

Questions 1–4

Direction for Questions 1–4:

The chart below shows the price data for seven shares - A, B, C, D, E, F, and G as a candlestick plot for a particular day. The vertical axis shows the price of the share in rupees. A share whose closing price (price at the end of the day) is more than its opening price (price at the start of the day) is called a bullish share, otherwise, it is called a bearish share. All bullish and bearish shares are shown in green and red colour respectively.



Use the data given (assumed to be in tabular form) to answer the following questions:

Question 1.

Daily Share Price Variability (SPV) is defined as above. Which among the shares A, C, D, and F had the highest SPV on that day?

- A. F
- B. A
- C. D
- D. C

Question 2.

How many shares had an SPV greater than 0.5 on that day?

Question 3.

Daily loss for a share is defined as above. Which among the shares A, B, F, and G had the highest daily loss on that day?

Mock Test 9

- A. G
- B. B
- C. A
- D. F

Question 4.

What would have been the percentage wealth gain for a trader who bought equal numbers of all **bullish** shares at opening price and sold them at their day's high?

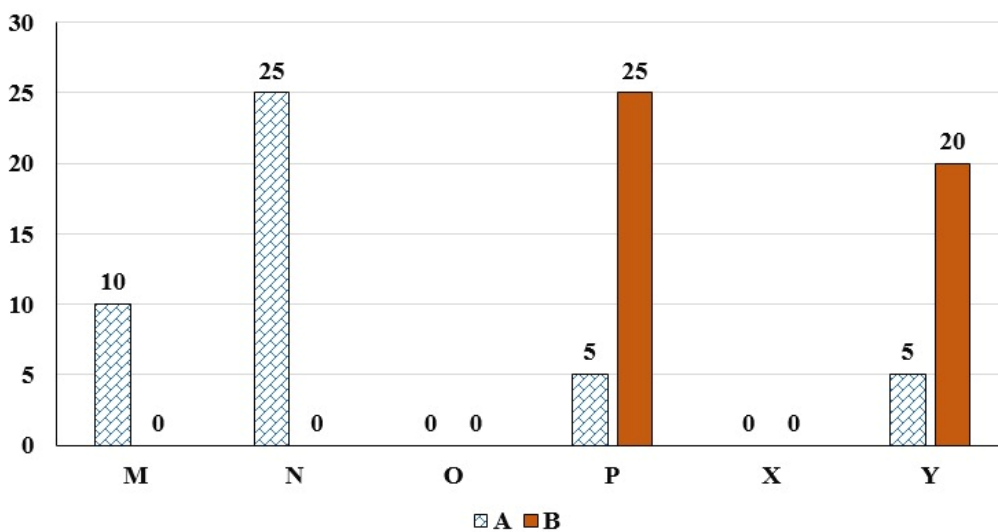
- A. 80%
- B. 50%
- C. 72%
- D. 100%

Questions 5–8

Direction for Questions 5–8:

Six web surfers **M, N, O, P, X, and Y** each had **30 stars**, which they distributed among four bloggers **A, B, C, and D**. The number of stars received by **A** and **B** from the six web surfers is shown in the figure below. (Assume the figure is provided)

No. of Stars received by Bloggers A and B



The following additional facts are known regarding the number of stars received by the bloggers from the surfers:

1. The numbers of stars received by the bloggers from the surfers were all multiples of 5 (including 0).
2. The total numbers of stars received by the bloggers were the same.
3. Each blogger received a different number of stars from **M**.
4. Two surfers gave all their stars to a single blogger.
5. **D** received more stars than **C** from **Y**.

Mock Test 9

Question 5.

What was the total number of stars received by **D**?

Question 6.

What was the number of stars received by **D** from **Y**?

- A. 5
 - B. 10
 - C. Can't be determined
 - D. 0
-

Question 7.

How many surfers distributed their stars among exactly 2 bloggers?

Question 8.

Which of the following can be determined with certainty?

- I. The number of stars received by **C** from **M**
 - II. The number of stars received by **D** from **O**
- A. Neither I nor II
 - B. Only I
 - C. Only II
 - D. Both I and II
-

Questions 9–13

Direction for Questions 9–13:

The game of **QUIET** is played between two teams. Six teams, numbered **1, 2, 3, 4, 5**, and **6**, play in a QUIET tournament. These teams are divided equally into **two groups**. In the tournament:

- Each team plays every other team in the **same group only once**.
- Each team plays each team in the **other group exactly twice**.
- The tournament has several rounds, each of which consists of a few games.
- Every team plays exactly one game in each round.

The following facts are known:

1. Each team played against a team from the **other group** in **Round 8**.
2. In **Round 4** and **Round 7**, the match-ups (i.e., the pair of teams playing each other) were **identical**.
3. In **Round 5** and **Round 8**, the match-ups were **identical**.
4. Team 4 played Team 6 in both **Round 1** and **Round 2**.
5. Team 1 played Team 5 **only once**, and that was in **Round 2**.

Mock Test 9

6. Team 3 played Team 4 in **Round 3**. Team 1 played Team 6 in **Round 6**.
 7. In Round 8, Team 3 played Team 6, while Team 2 played Team 5.
-

Question 9.

How many rounds were there in the tournament?

Question 10.

What is the number of the team that played Team 1 in **Round 5**?

Question 11.

What is the number of the team that played Team 1 in **Round 7**?

Question 12.

What is the number of the team that played Team 6 in **Round 3**?

Question 13.

Which team among the teams numbered 2, 3, 4, and 5 was **not part of the same group**?

- A. 5
 - B. 3
 - C. 4
 - D. 2
-

Questions 14–18

Directions for Questions 14–18:

Two students, **Amiya** and **Ramya**, are the only candidates in an election for the position of class representative. Students vote based on the **intensity** and **type** of campaign each candidate runs.

- Each campaign has a **level**:
 - Level 1: *Staid* campaign
 - Level 2: *Vigorous* campaign
- Each campaign is of **two types**:
 - *Focusing on issues*
 - *Attacking the opponent*

If both candidates focus on issues:

- Percentage of students who vote = $20 \times (\text{sum of campaign levels of both candidates})$.
- The percentage of votes among those who vote is proportional to their campaign levels.

Mock Test 9

If at least one candidate attacks:

- If **Amiya attacks**, Ramya focuses on issues:
 - 10% of Amiya's supporters shift to Ramya.
 - Another 10% of Amiya's supporters don't vote.
 - If **Ramya attacks**, Amiya focuses on issues:
 - 20% of Ramya's supporters shift to Amiya.
 - Another 5% of Ramya's supporters don't vote.
 - If **both attack**, 10% of each of their supporters (based on issue-campaign scenario) do not vote.
-

Question 14.

If both of them run staid campaigns attacking the other, then what percentage of students will vote in the election?

- A. 40%
 - B. 64%
 - C. 60%
 - D. 36%
-

Question 15.

What is the minimum percentage of students who will vote in the election?

- A. 32%
 - B. 40%
 - C. 38%
 - D. 36%
-

Question 16.

If Amiya runs a campaign focusing on issues, then what is the maximum percentage of votes that she can get?

- A. 48%
 - B. 44%
 - C. 40%
 - D. 36%
-

Question 17.

If Ramya runs a campaign attacking Amiya, then what is the minimum percentage of votes that she is guaranteed to get?

- A. 12%
 - B. 15%
 - C. 30%
 - D. 18%
-

Mock Test 9

Question 18.

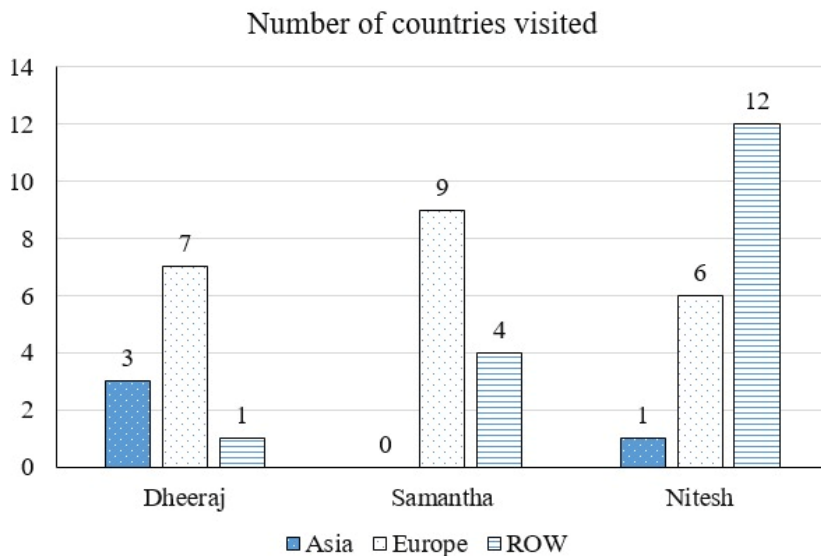
What is the maximum possible voting margin with which one of the candidates can win?

- A. 20%
- B. 29%
- C. 28%
- D. 26%

Questions 19–22

Directions for Questions 19–22:

The chart below (assumed provided) shows the number of countries visited by **Dheeraj**, **Samantha**, and **Nitesh** across **Asia**, **Europe**, and **Rest of the World (ROW)**.



The following additional facts are known:

1. 32 countries were visited by at least one of them.
2. **USA (in ROW)** is the only country visited by **all three**.

Mock Test 9

3. **China (in Asia)** is the only country visited by **Dheeraj** and **Nitesh**, but **not Samantha**.
 4. **France (in Europe)** is the only non-Asian country visited by **Dheeraj** and **Samantha**, but **not Nitesh**.
 5. **Half** of the countries visited by **both Samantha and Nitesh** are in **Europe**.
-

Question 19.

How many countries in **Asia** were visited by at least one of Dheeraj, Samantha, and Nitesh?

Question 20.

How many countries in **Europe** were visited **only by Nitesh**?

Question 21.

How many countries in the **ROW** were visited by **both Nitesh and Samantha**?

Question 22.

How many countries in **Europe** were visited by **exactly one** of Dheeraj, Samantha, and Nitesh?

- A. 10
 - B. 5
 - C. 14
 - D. 12
-

Mock Test 9

Answer Key

1. (c)
2. 4
3. (c)
4. (a)
5. 45
6. (a)
7. 2
8. (b)
9. 8
10. 4
11. 3
12. 5
13. (a)
14. (d)
15. (d)
16. (a)
17. (b)
18. (b)
19. 3
20. 2
21. 4
22. (d)