

Building/ Testing cases - CATx

King Amitabh of Bollysteel organised a competition to decide the groom for his daughter in two steps- The preliminary stage and final stage. The preliminary stage comprised of a written test whereas in the final stage there was an archery competition. The archery competition consisted of five rounds wherein the contestant could score from 2 to 9 points in each round. The prince who scored the maximum points in these five rounds would be considered the winner overall standing and would marry the princess.

When the results of the prelim stage were announced, it was found that only five princes- A,B,C,D and E qualified and hence these were the only contestants left to compete in the final stage.

During the final stage, however, the judge who was tabulating the scores of the princes started talking short naps and so at the end, when King Amit asked for the score card to find out the final winner, he was presented the following table.

	R1	R2	R3	R4	R5
A	9		8		3
B		2	3		
C	2	9	4	8	
D	4	6		5	8
E		3			9

However, the judge has made the following observations too.

- No two princes had scored equally in any round
- The difference between the total points scored by A and D was 6 points
- B's total points were greater than that of C's total points
- A scored an even number of points in 2nd and 4th rounds.
- Each of the five scored greater than or equal to 24 points in five rounds
- There were no ties between any two princes in their overall points.

1. Prince D won the competition and married the princess. Also, prince B scored 28 points from the five rounds. Then which of the following could be false.

- Prince C scores more points than prince E in round 4
- Prince A scores more points than prince E in round 2
- Prince B scores more points than prince E in round 1
- Prince D scores more than Prince A in round 3

2. If prince D scores 5 points in the 3rd round and prince C scores 4 points in the fifth round, then which of the following will be definitely false ?

- Prince A is 1st in overall standing
- E is 2nd in overall standing
- C is 3rd in overall standing

d. Prince D is 4th in overall standing

3. If prince E scores 2 points in the 3rd round. Then which of the following statements is sufficient to decide the winner ?

- I. C scores the maximum possible points in the 5th round
- II. D scores the maximum possible points in the 3rd round \

- a. only I
- b. Only II
- c. I and II
- d. Even I and II together are not sufficient

4. If C scores 5 points in the 5th round but E becomes the winner with the least possible total points, then what is the least possible points scored by E in the 3rd round

- a. 5
- b. 6
- c. 8
- d. 7

Ans key

C

C

B

D