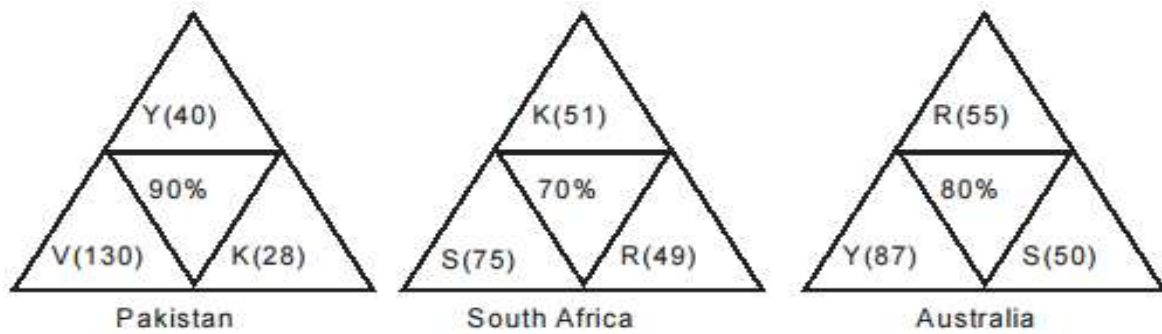


GAMES & TOURNAMENT – 3

Direction: Coach John sat with the score cards of Indian players from the 3 games in a one-day cricket tournament where the same set of players played for India and all the major batsmen got out. John summarized the batting performance through three diagrams, one for each game. In each diagram, the three outer triangles communicate the number of runs scored by the three top scores from India, where K, R, S, V, and Y represent Kaif, Rahul, Saurav, Virender, and Yuvraj respectively. The middle triangle in each diagram denotes the percentage of the total score that was scored by the top three Indian scorers in that game. No two players score the same number of runs in the same game.

John also calculated two batting indices for each player based on his scores in the tournaments; the R-index of a batsman is the difference between his highest and lowest scores in the 3 games while the M-index is the middle number, if his scores are arranged in non-increasing order.



- For how many Indian players is it possible to calculate the exact M-index?
a) 0 b) 1 c) 2 d) More than 2
- Among the players mentioned, who can have the lowest R-index from the tournament?
a) Only Kaif, Rahul or Yuvraj b) Only Kaif or Rahul
c) Only Kaif or Yuvraj d) Only Kaif
- How many players among those listed definitely scored less than Yuvraj in the tournament?
a) 0 b) 1 c) 2 d) More than 2
- Which of the players had the best M-index from the tournament?
(1) Rahul (2) Saurav (3) Virender (4) Yuvraj
a) 0 b) 1 c) 2 d) 4

Direction: The game of Chango is a game where two people play against each other; one of them wins and the other loses, i.e., there are no drawn Chango games. 12 players participated in a Chango championship. They were divided into four groups: Group A consisted of Aruna, Azul, and Arif; Group B consisted of Brinda, Brij, and Biju; Group C consisted of Chitra, Chetan, and Chhavi; and Group D consisted of Dipen, Donna, and Deb.

Players within each group had a distinct rank going into the championship. The players have NOT been listed necessarily according to their ranks. In the group stage of the game, the second and third ranked players play against each other, and the winner of that game plays against the first ranked player of the group. The winner of this second game is considered as the winner of the group and enters a semi-final.

The winners from Groups A and B play against each other in one semi-final, while the winners from Groups C and D play against each other in the other semi-final. The winners of the two semi-finals play against each other in the final to decide the winner of the championship.

It is known that:

- Chitra did not win the championship.
- Aruna did not play against Arif. Brij did not play against Brinda.
- Aruna, Biju, Chitra, and Dipen played three games each, Azul and Chetan played two games each, and the remaining players played one game each.
- Who among the following was DEFINITELY NOT ranked first in his/her group?
a) Chitra b) Aruna c) Dipen d) Brij
- Which of the following pairs must have played against each other in the championship?
a) Azul, Biju b) Donna, Chetan c) Deb, Donna d) Chitra, Dipen

7. Who won the championship?
 a) Brij b) Chitra c) Cannot be determined d) Aruna
8. Who among the following did NOT play against Chitra in the championship?
 a) Aruna b) Dipen c) Chetan d) Biju

Direction: 10 players - P1, P2, ... , P10 - competed in an international javelin throw event. The number (after P) of a player reflects his rank at the beginning of the event, with rank 1 going to the topmost player. There were two phases in the event with the first phase consisting of rounds 1, 2, and 3, and the second phase consisting of rounds 4, 5, and 6. A throw is measured in terms of the distance it covers (in meters, up to one decimal point accuracy), only if the throw is a 'valid' one. For an invalid throw, the distance is taken as zero. A player's score at the end of a round is the maximum distance of all his throws up to that round. Players are re-ranked after every round based on their current scores. In case of a tie in scores, the player with a prevailing higher rank retains the higher rank. This ranking determines the order in which the players go for their throws in the next round.

In each of the rounds in the first phase, the players throw in increasing order of their latest rank, i.e. the player ranked 1 at that point throws first, followed by the player ranked 2 at that point and so on. The top six players at the end of the first phase qualify for the second phase. In each of the rounds in the second phase, the players throw in decreasing order of their latest rank i.e. the player ranked 6 at that point throws first, followed by the player ranked 5 at that point and so on. The players ranked 1, 2, and 3 at the end of the sixth round receive gold, silver, and bronze medals respectively.

All the valid throws of the event were of distinct distances (as per stated measurement accuracy).

The tables below show distances (in meters) covered by all valid throws in the first and the third round in the event.

Distances covered by all the valid throws in the first round

| Player | P1 | P3 | P5 | P6 | P7 | P8 |
|-----------------|------|------|------|------|------|------|
| Distance (in m) | 82.9 | 81.5 | 86.4 | 82.5 | 87.2 | 84.1 |

Distances covered by all the valid throws in the third round

| Player | P1 | P3 | P9 |
|-----------------|------|----|------|
| Distance (in m) | 88.6 | 79 | 81.4 |

The following facts are also known.

- I. Among the throws in the second round, only the last two were valid. Both the throws enabled these players to qualify for the second phase, with one of them qualifying with the least score. None of these players won any medal.
 - II. If a player throws first in a round AND he was also the last (among the players in the current round) to throw in the previous round, then the player is said to get a double. Two players got a double.
 - III. In each round of the second phase, exactly one player improved his score. Each of these improvements was by the same amount.
 - IV. The gold and bronze medalists improved their scores in the fifth and the sixth rounds respectively. One medal winner improved his score in the fourth round.
 - V. The difference between the final scores of the gold medalist and the silver medalist, as well as the difference between the final scores of the silver medalist and the bronze medalist was 1.0 m.
9. Which two players got the double?
 a) P1, P8 b) P2, P4 c) P8, P10 d) P1, P10
10. Who won the silver medal?
 a) P5 b) P7 c) P9 d) P1
11. Who threw the last javelin in the event?
 a) P7 b) P1 c) P9 d) P10
12. What was the final score (in m) of the silver-medalist?
 a) 89.6 b) 88.4 c) 88.6 d) 87.2
13. Which of the following can be the final score (in m) of P8?
 a) 81.9 b) 0 c) 82.7 d) 85.1
14. By how much did the gold medalist improve his score (in m) in the second phase?
 a) 1.0 b) 2.0 c) 2.4 d) 1.2

Direction: Nine horses participated in a horse tournament. Five races were held in this tournament. The winner of a race gets 5 points, 2nd gets 3 and 3rd gets 1. The table gives the points tally at the end of the races.

| Horse | A | B | C | D | E | F | G | H | I |
|--------|---|---|---|---|---|---|---|----|---|
| Points | 5 | 5 | 8 | 2 | 5 | 6 | 4 | 10 | 0 |

One race is held between 5 horses. The first race is held among the 1st 5 horses from the left in the above table. In the next race, out of these horses, A drop out of the race and new horse F enters into the race. In the next race, B drops out and G enters and so on. It is also given that H the only horse that scored in 2 consecutive races.

15. What was the position of horse F in race 4?
 - a) 4
 - b) 2
 - c) 3
 - d) 1
 - e) CBD
16. What is the ratio of the points scored by G and E in race 5?
 - a) 1:3
 - b) 3:1
 - c) 1: 5
 - d) 5:1
 - e) CBD
17. The first three rankers of the race 3 are?
 - a) CEG
 - b) DEF
 - c) CGE
 - d) CEF
 - e) either 1 or 3
18. D could have come 3rd in which of the following races?
 - a) 1
 - b) 3
 - c) 4
 - d) 5
 - e) CBD
19. Suppose C had 6 points and E had 7 points while the points of the rest of the horses remain unchanged the E could have come 2nd in?
 - a) 1 race
 - b) 2 race
 - c) At most 1 race
 - d) At most 2 race
 - e) CBD