

CAT 2024 Slot 2 Question Paper

DILR Question 1

There are eight players named as 1 to 8 in a Gymnastic School and three coaches X, Y, and Z to train them. After a certain period of training, they give a rating from 1 to 7 to these players based on their performance. Coach Y trained an even number of players and coach Z trained an odd number of players. The following facts are known:

1. Coach X trained more players than coach Y.
2. Player 1 and Player 4 had the same coach. Players 2, 3, and 5 had different coaches.
3. Player 5 and Player 7 had the same coach and had the same score, but all other players received unique scores.
4. The average rating of all the players was 4.
5. The average rating of the players of coach Y was twice that of coach X and two more than that of coach Z.
6. Player 2 had the highest rating.

Question 2:

We have the numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10, and they must be arranged in a grid with 4 columns and 4 rows, with the following structure:

- In row 1, there are 4 cells.
- In row 2, there are 3 cells (the first cell of row 2 is blank).
- In row 3, there are 2 cells.
- In row 4, there is only 1 cell.

The following facts must also be satisfied:

1. In each row, the numbers must be arranged from highest to lowest from left to right.
2. In each column, the numbers must be arranged from highest to lowest from top to bottom.
3. Numbers 1 and 10 must be in the same row or column.
4. Either number 4 or number 6 must not be in the same row or column as number 10.
5. Either number 2 or number 3 must not be in the same row or column as number 9.