Assignment Questions on 23-05-2023

1. In how many ways can the letters of the word 'READER' be arranged?

2. How many ways can 12 white pawns and 12 black pawns be placed on the black squares of 8 X 8 chessboard?

3. In how many ways can a hand of 5 cards be selected from a deck of 52 cards?

4. From a group of professors how many ways can a committee of 5 members be formed so that at least one of professor A and professor B will be included?

5. In how many ways can 12 of the 14 people be distributed into 3 teams where the first team has 3 members, the second has 5, and the third team has 4 members?

6. Suppose that Florida state university has a residence hall that has 5 single rooms, 5 double rooms, and 3 rooms for 3 students each. In how many ways can 24 students be assigned to the 13 rooms