Home:

1. How many ways are there to choose a vowel and a consonant from the word "RINGER"?

2. How many six-digit numbers have all their digits of equal parity (all odd or all even)?

3. The rules of a chess tournament say that each contestant must play every other contestant exactly once. How many games will be played if there are 18 participants?

4. How many ways are there to place two knights on a chessboard so that they do not attack each other?

5. There are three rooms in a dormitory: one single, one double, and one for four students. How many ways are there to house seven students in these rooms?