

Assignment 5

Q1. Alphabetic - Numeric characters

Determine the number of character sequences composed of three letters followed by 3 digits.

Q2. Fashion

You have 4 pairs of pants, 6 pairs of socks, 3 shirts, and 5 sweaters. How many different outfits can you wear?

Q3. Basketball Starting Lineup

A basketball team starting lineup consists of 5 players. How many ways are there to choose a basketball starting lineup out of team roster of 10 players?

Q4. Volleyball Starting lineup

A volleyball starting lineup consists of 6 players in which the order of appearance in the lineup matters. How many ways are there to choose a volleyball starting lineup out of a team roster of 13 players?

Q5. Soccer Starting lineup

A soccer starting lineup consists of 10 players plus 1 goalkeeper. How many ways are there to choose a soccer starting lineup out of a team of 22 players?

Q6. Numbers

How many 5 digit numbers can be made that contain 2 ones, 2 threes, and 1 two?

Q7. Bouquet

You have 12 roses, 12 daisies, and 12 sunflowers. How many different ways are there to make one bouquet of 12 flowers?