There are 52 cards in a standard deck of cards. How many ways can you be dealt 5 cards?

How many ways can you roll 2 dice and flip 3 coins?

A nightly drawing for a lottery selects 5 numbers (1 - 30). No number can repeat. How many drawings could start with the number 20?

(order does not matter to win the lottery)

A music app shuffles the 7 songs you have on your device. How many ways could the app create a playlist?

How many ways can a person flip 4 coins in which the 4th coin is tails?

A five digit security code is created. How many more options does a person have if the digits can repeat versus if they cannot repeat?

How many ways can you rearrange the word ATHENS?

Out of 50 contestants on a gameshow, 3 of them will be selected to win \$1000. How many ways could the contestants be selected?

A person is asked to pick a letter, roll a die, and flip a coin. How many outcomes would we expect?

6 family members stand in line to take a picture. How many more ways can they stand in line if they are not required to line up from older to youngest?