

Probability Study Guide

The Fundamental Counting Principle

Fundamental Counting Principle

If there are m ways to choose a first item and n ways to choose a second item after the first item has been chosen, then there are $m \cdot n$ ways to choose both items.

*It is helpful to draw slots for the number of individual items

At Gillette stadium, there are 4 entrance gates and 5 exit gates. How many ways can you enter and leave?

$$5 \times 4 = 20 \text{ ways}$$

A sandwich can be made with 2 different types of bread, d types of different meats, d types of cheese, and 3 types of condiments. How many types of sandwiches can be made if each sandwich consists of one bread choice, one meat, one cheese, and one condiment?

$$2 \times d \times d \times 3 = 6d^2 \text{ sandwiches}$$

Permutations

A **permutation** is an arrangement of outcomes in which the order DOES matter.

The **factorial** of a number is the product of the number and all the #'s less than the number (down to 1)

$$5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$$

$$6! = 6 \times 5! = 720$$

Suppose you want to make a four-letter password from the letters A, B, C, and D without repeating a letter.

$$4 \times 3 \times 2 \times 1 = 24 \text{ passwords}$$

*You have 4 choices for the first letter, but only 3 choices for the second letter. You have one fewer choice for each subsequent letter of the password.

Permutations

FORMULA

The number of permutations of n things chosen r at a time.

$${}_n P_r = \frac{n!}{(n-r)!}$$

EXAMPLE

A club will choose a president, a vice president, and a secretary from a list of 8 people. How many ways can the club choose the 3 officers?

The position that each person takes matters, so this situation involves permutations.

Think: There are 8 people, and the club will choose 3 of them.

$${}_8 P_3 = \frac{8!}{(8-3)!} = \frac{8!}{5!} = 336$$

****Helpful Hint:**
the factorial of 0 is defined to be 1
 $0! = 1$

n = # of things to choose from

r = # of picks

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