Probability Study Guide

The 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.

m is used to order each 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, 4 types of different meats, 4 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?

$$2 \times 4 \times 4 \times 3 = 48 \text{ sandwiches}$$

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.

FORMULA	The number of permutations of *n* things chosen *r* at a time. $${}_nP_r = \frac{n!}{(n-r)!}$$
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. $${}_8P_3 = \frac{8!}{(8-3)!} = \frac{8!}{5!} = 336$$

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

n = # of things to choose from   **r = # of picks**

Created by T. Chestnut

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Table of Contents Math Ogt Study Guide Probability

1. Understanding the eBook Math Ogt Study Guide Probability
   - The Rise of Digital Reading Math Ogt Study Guide Probability
   - Advantages of eBooks Over Traditional Books
2. Identifying Math Ogt Study Guide Probability
   - Exploring Different Genres
   - Considering Fiction vs. Non-Fiction
   - Determining Your Reading Goals
3. Choosing the Right eBook Platform
   - Popular eBook Platforms
   - Features to Look for in an Math Ogt Study Guide Probability
   - User-Friendly Interface
4. Exploring eBook Recommendations from Math Ogt Study Guide Probability
   - Personalized Recommendations
   - Math Ogt Study Guide Probability User Reviews and Ratings
   - Math Ogt Study Guide Probability and Bestseller Lists
5. Accessing Math Ogt Study Guide Probability Free and Paid eBooks

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