

# 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

# Statistics And Probability Word Problems Study Guide

**RC Schank**



## **Statistics And Probability Word Problems Study Guide:**

## Whispering the Techniques of Language: An Emotional Quest through **Statistics And Probability Word Problems Study Guide**

In a digitally-driven earth where displays reign great and quick interaction drowns out the subtleties of language, the profound secrets and psychological nuances concealed within phrases often move unheard. Yet, situated within the pages of **Statistics And Probability Word Problems Study Guide** a charming fictional prize blinking with fresh emotions, lies an exceptional journey waiting to be undertaken. Written by a talented wordsmith, that marvelous opus encourages readers on an introspective trip, lightly unraveling the veiled truths and profound influence resonating within the very cloth of each word. Within the mental depths of this moving evaluation, we can embark upon a genuine exploration of the book is core themes, dissect their captivating publishing type, and yield to the powerful resonance it evokes heavy within the recesses of readers hearts.

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