

# Probability Study Guide

SOL 3.18

## Vocabulary:

- **Certain:** an event can definitely happen
- **Equally likely (as likely as):** an event that could happen as much as another event
- **Event:** something that happens or may not happen
- **Impossible:** an event cannot happen
- **Likely:** there is a greater chance of an event happening
- **Outcome:** the end result
- **Probability:** the chance an event will occur
- **Unlikely:** there is a less chance of an event happening

## Combinations

Combinations are when you find all possible outcomes of two or more objects.

Example: If Fred has vanilla, chocolate, and strawberry ice cream and the option of putting it in a cone or bowl. How many combinations can Fred make?

Vanilla—Cone

Strawberry—Cone

Vanilla—Bowl

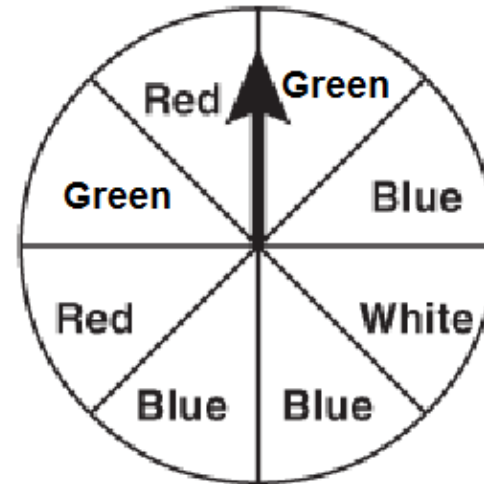
Strawberry—Bowl

Chocolate—Cone

Chocolate—Bowl

He can make **6** combinations.

## Probability Examples



**Certain:** It is certain you will land on a color.

**Likely:** It is most likely you will land on blue.

**Unlikely:** It is unlikely you will land on white.

**Impossible:** It is impossible you will land on yellow.

**Equally Likely:** It is equally likely you will land on red or green.

**As Likely As:** You can land on red as likely as you can land on green.

**There are 4 possible outcomes on the spinner.**

Blue (3 out of 8), White (1 out of 8),

Green (2 out of 8), Red (2 out of 8)