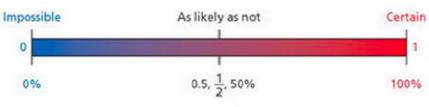
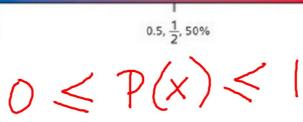
| Simple Probability | HW: Simple Probability WS |
|--------------------|---------------------------|
|--------------------|---------------------------|

| Outcome -   |               |
|---|---------------|
| A single specific possible result of an experiment                |               |
|   |               |
| event   |               |
| a set of possible outcomes resulting from a particular experiment |               |
|   |               |
| Sample Space - A set of ALL possible outcomes                     |               |
|   |               |
| Toss a coin 2 times   |               |
| loss a com & Fines  | "             |
| •   | $H \leq \bot$ |
|   |               |
| { HH, TT, HT, TH }  | 1, 1          |

| Experiment   | Rolling a number cube | Spinning a spinner |
|--------------|-----------------------|--------------------|
| Sample Space | {1,2,3,4,5,6}         | {B, Y, R, G}       |

Probabilities can be expressed as fractions (between 0 and 1), decimals (between 0 and 1) or as a percent (between 0% and 100%).





Ex 1: A CD has 5 upbeat songs and 7 slow ballads. What is the probability that a randomly selected song is an upbeat dance song?

$$P(upbeat) = \frac{5}{12}$$

Complement: A set of outcomes that are not in the set

$$A = \{1,2,3,4,5\}$$
 $A = \{6,7\}$ 
 $A = \{6,7\}$ 

## Students were asked "What is your favorite food?"

Pasta 
$$12$$

Pizza  $7D$ 

Ice Cream  $3$ 

Chicken  $9$ 

Other  $25$ 

P(liked pasta) =  $\frac{12}{119}$ 

P(does not like pasta) =  $\frac{19-12}{119}$ 
 $1-\frac{12}{119}$ 
 $1-\frac{12}{119}$ 
 $1-\frac{12}{119}$