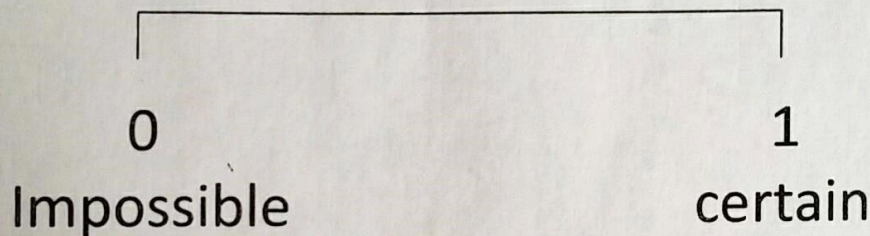


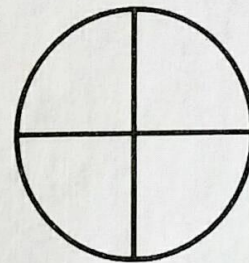
Probability Name \_\_\_\_\_

Probability- How likely an event is to occur. Can be written as a \_\_\_\_\_, \_\_\_\_\_, or \_\_\_\_\_.

- Always on or between 0 and 1



Example: What is  $P(\text{green})$ ?  
 $\frac{1}{4}$ , .25, or 25%



Outcomes- all choices that may occur.

Fraction form of probability:

Chance of specific outcome

\_\_\_\_\_

total # of outcomes

Theoretical Probability-What " \_\_\_\_\_ " occur mathematically

Experimental Probability- What \_\_\_\_\_ occurs in a trial or experiment

Simple event - 1 \_\_\_\_\_ with 1 \_\_\_\_\_ outcome.

Ex. Flip a coin- get head or tail

Roll a die- get a 1, 2, 3, 4, 5, or 6

Compound event- sequence of simple events with \_\_\_\_\_ .

Ex. List all of the possible outcomes that can occur if you flip a coin and roll a die.(hint: draw a tree diagram-later notes)

Sample Space-List of all \_\_\_\_\_ outcomes

Ex. Flip a coin  $S=\{H,T\}$

Complements of an event- The \_\_\_\_\_ of an event. The set of outcomes \_\_\_\_\_ included in the event.  $P(A')$  read  $P(\text{not } A)$

$$P(A') = 1 - P(A)$$

Ex. Roll a die  $P(5') = 1 - P(5) \quad 1 - 1/6 = 5/6$