Section 4-5: Probability

Probability: The measure of how likely it is something

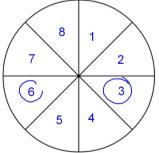
is going to happen.

## Probabilities can be given as:

Ratio Percent Decimal

You will spin the spinner shown one time. Find each probability as a fraction.

1. 
$$P(\text{odd}) = \frac{4}{8}$$
2.  $P(\text{Multiple of 3}) = \frac{2}{8}$ 



## Two types of Probability:

## Theoretical Probability

Uses your knowledge of the situation to predict the future outcome of an event.

Theoretical Probability = # favorable outcomes total possible outcomes total possible outcomes

## **Experimental Probability**

Uses the results of an experiment to predict the future outcome of an event.

Experimental Probability = # times an event actually occurs # times experiment was done