

## IMPORTANT PROBABILITY TERMS!

Experiment --- an activity in which results are observed.

Trial - each round of an experiment

Outcome - the result of a trial

Probability - the chance of an event happening.

Event - set of possible outcomes from an activity or experiment

Sample Space - set of all possible outcomes of an activity or experiment

Uniform Probability - When all outcomes of an event are equally likely to occur

Compound Event - consists of 2 or more events

Independent Events – the outcome of one event does not influence the outcome of the second event

Dependent event – the outcome of one event influences the outcome of a second event

Fundamental Counting Principle – when an experiment has an event with more than one part, the number of possible outcomes is calculated by looking at the number of possible outcomes for each part and multiplying them.

Tree Diagram – way of representing compound events

Impossible event – probability is zero

Likely event – probability between  $\frac{1}{2}$  and 1

Unlikely event – probability between 0 and  $\frac{1}{2}$

Certain event – probability is 1

Uniform probability --- when each event has an equally likely outcome of occurring.