Grade 7
Unit 6 Vocabulary

Probability

(7.6A, 7.6B, 7.6C, 7.6D, 7.6E, 7.6F, 7.6H, 7.6I)

__Probability__ – the measure of the likelihood that an event will happen.

Chance of something happening

Probability of rolling a 6

Probability of getting a head

Experiment - an activity involving chance where the outcome is noted.

What you are doing probability on

Outcome – the results that occur in an experiment.

A possible result of an experiment.

Coin Flip

Heads, Tails

Die Roll

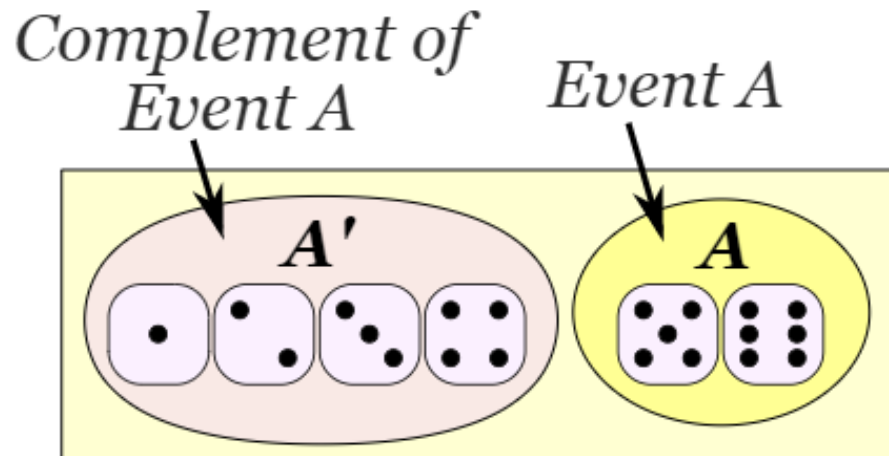1, 2, 3, 4, 5, 6

Event – a set of outcomes.

One (or more) outcomes of an experiment.

{ ⚁ ⚃ ⚅ } Event A = even numbers

{ ⚀ ⚂ ⚄ } Event B = odd numbers

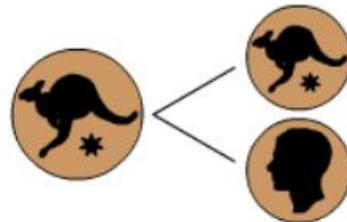*Complement* – the probability of an event not happening.

Not getting what you want in probability.

Sample Space (S)- a representation of all possible outcomes of an experiment.

All the possible outcomes of an experiment.

When tossing a coin, the sample space is heads or tails.

S = { H, T }

When rolling a die, the sample space is 1, 2, 3, 4, 5 or 6.

S = { 1, 2, 3, 4, 5, 6 }

Simple Event - an event in which only one thing is happening.

Only 1 event

__Compound Events__ - an event made up of two or more simple events.

2 or more events at the same time

Theoretical Probability – the expected outcome; the ratio of the number of favorable outcomes to the number of possible outcomes.

What you "think" should happen in probability

IF I FLIP A COIN 100 TIMES I SHOULD GET 50 HEADS AND 50 TAILS.

**Experimental Probability** - the ratio of the number of times an event occurs to the total number of trials in an experiment.

What really happens in probability

IF I FLIPPED A COIN 100 TIMES I GOT 30 HEADS AND 70 TAILS.