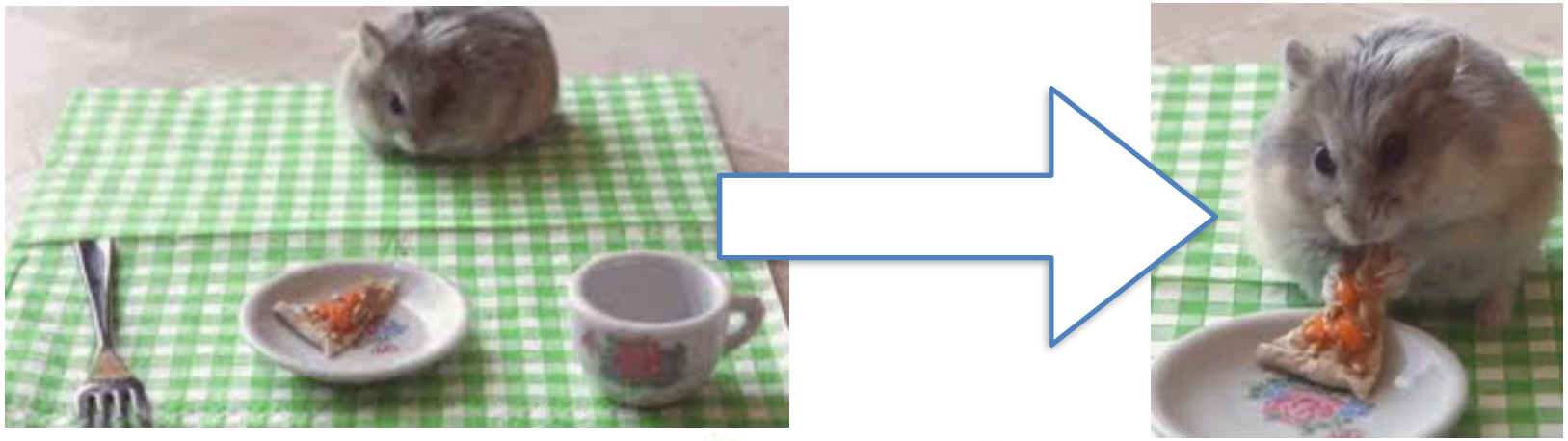
Describing Events



By the end of this lesson, I will be able to answer the following questions…

1. How do I read Venn Diagrams?

2. How do I read a frequency table?

3. What are the common symbols used for statistics and how do I interpret them?

Vocabulary

1. Union - When event A or B happens. $A \cup B$

2. Intersection - When event A and B happens. $A \cap B$

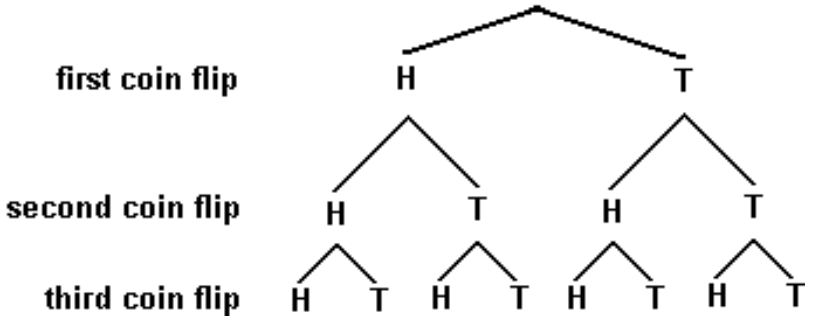
3. Not - When event A doesn't happen. $\overline{A}$

4. Set Notation - {Sample Space}

Prerequisite Skills with Practice

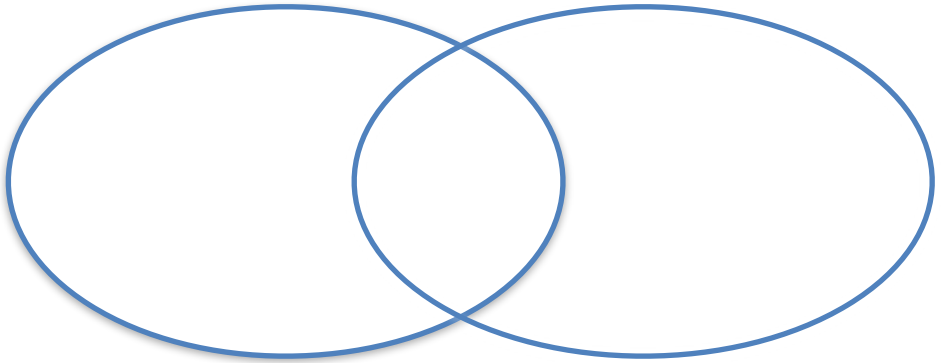
Drawing a **Tree Diagram** to understand a a sample space of all possible outcomes.

"A coin flipped three times"



Drawing a **Venn Diagram** to understand a a sample space of all possible outcomes.

"Pizza Toppings"



A hamster is chosen at random. List the sample space and then describe the following events…

Hamster	Wheel Runners Club	Tube Tunnelers Club	Fuzzy Friends Club
Saul	x		x
Beatriz		x	
Andre	x	x	x
Ralph			x
Iris	x		

List the Sample Space.

Describe the following events

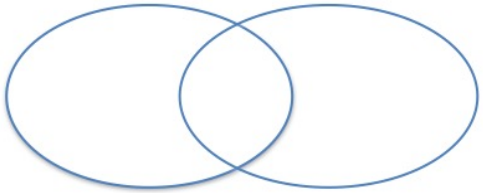
{Saul, Andre, Iris}

{Saul, Ralph,Iris}

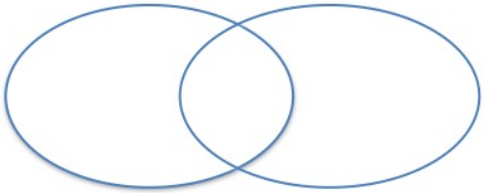
{Beatriz, Ralph}

Expanding on the Venn Diagram

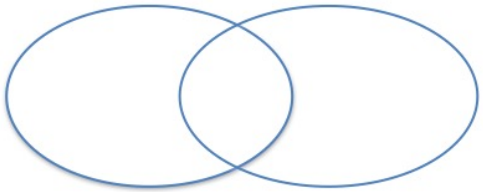
Given Event A and Event B….



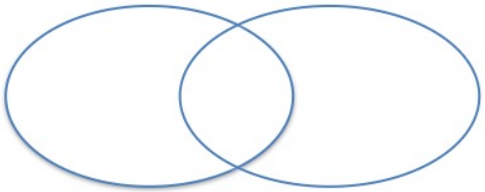
$P(A)$



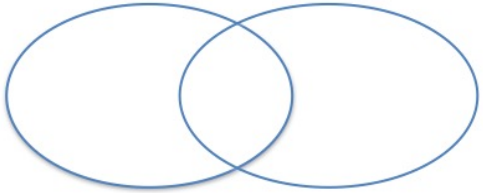
$P(A \cap B)$



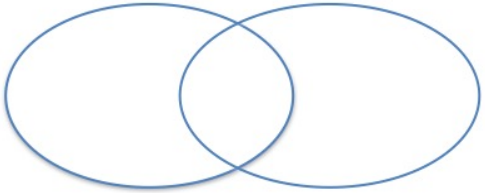
$P(\overline{B})$



$P(A \cup B)$



$P(\overline{A \cap B})$



$P(\overline{A \cup B})$

THE END

Visit PlottsMath for assignment details