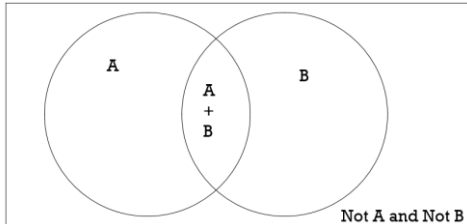


Name: _____ Date: _____

Venn Diagrams

Basic Venn Diagram:

groups with elements that belong to each group.



Notation:

\cup means "or"

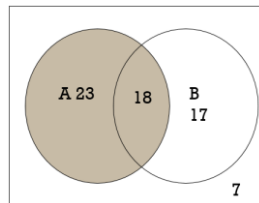
\cap Means "and"

Probability with Venn Diagrams

Probability of A: $P(A) \rightarrow$
reads "the probability of A"

Entire circle represents the probability.

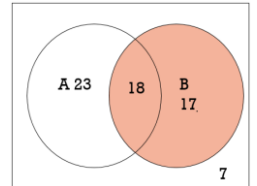
$P(A) =$



Probability of B: $P(B) \rightarrow$
reads "the probability of B"

Entire circle represents the probability.

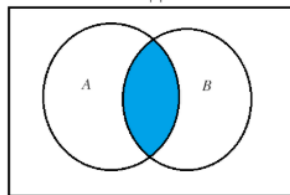
$P(B) =$



Probability of A and B:

$P(A \cap B) \rightarrow$ reads "the probability of A and B". Only the middle represents the probability.

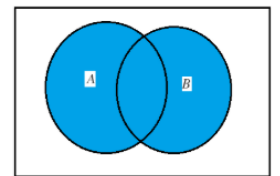
$P(A \cap B) =$



Probability of A or B:

$P(A \cup B) \rightarrow$ reads "the probability of A or B". Both circles together represents the probability.

$P(A \cup B) =$



Probability of NOT A and NOT B:

$P(\text{Not } A \cap \text{Not } B) \rightarrow$ reads "the probability of Not A and Not B". The rectangle without the circles represents the probability.

$P(\text{Not } A \cap \text{Not } B) =$

