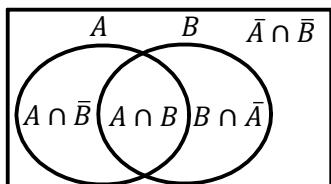


P12 - 2.2 - Sets Venn Diagrams Review

$$\text{Diagram: } \text{Two overlapping circles} = \text{Circle A} + \text{Circle B} - \text{Intersection}$$

Sets : A collection of distinct numbers or objects

Element : A number or object of the set



U
Universal
Set "All"

Set Notation
And : \cap
Or : \cup
Not : \bar{A} @ $\bar{A} = A'$

1st

$$A \cup B = A + B - A \cap B$$

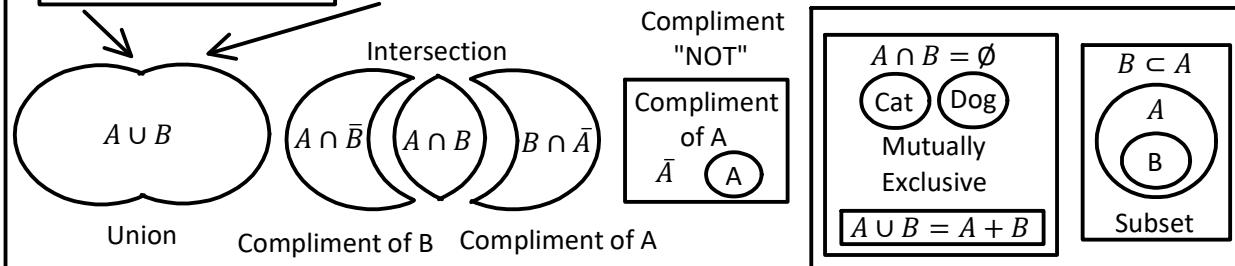
\in : "Is an element of"
 \notin : "Is Not an element of"

$n(A)$ or A : # elements in set A

\emptyset : Empty Set

\subset : Subset

$$\bar{A} \cup \bar{B} = (\bar{A} \cap B) \\ \bar{A} \cap \bar{B} = (A \cup B)$$

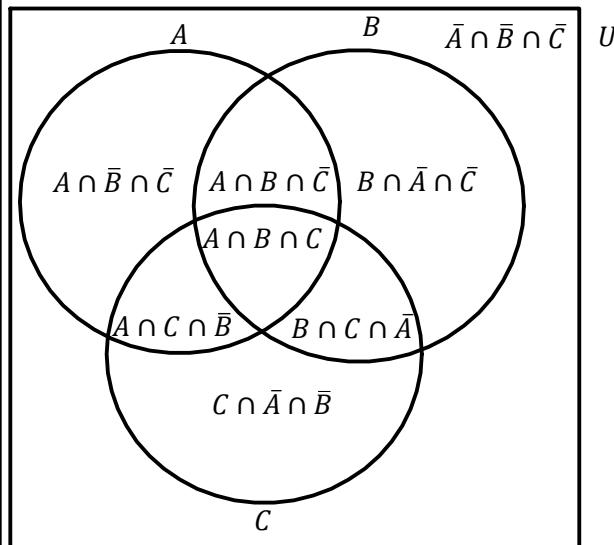
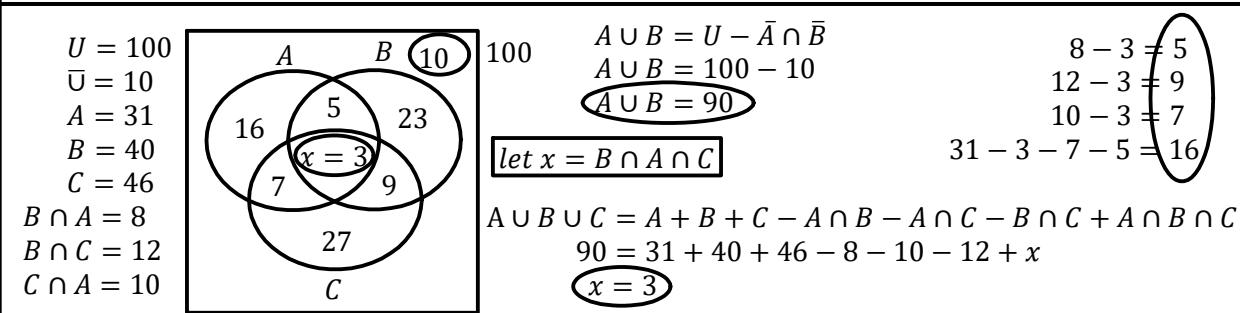
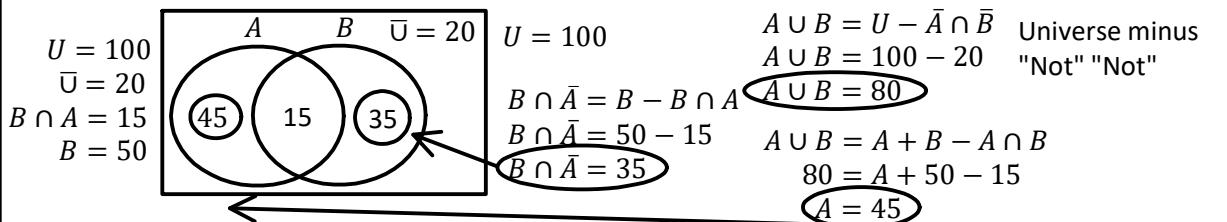


Compliment
"NOT"

Compliment
of A
 \bar{A}

$A \cap B = \emptyset$
Cat Dog
Mutually Exclusive
 $A \cup B = A + B$

$B \subset A$
A
B
Subset



$$A \cup B \cup C = A + B + C - A \cap B - A \cap C - B \cap C + A \cap B \cap C$$