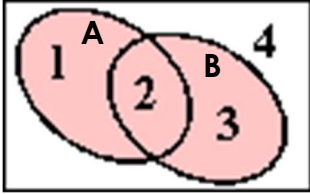
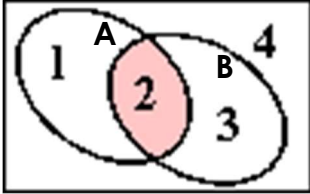
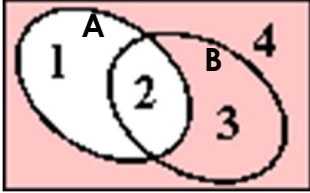
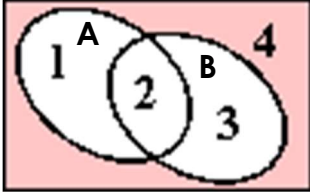
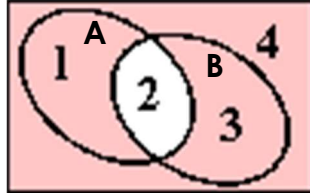


Name: _____ Date: _____

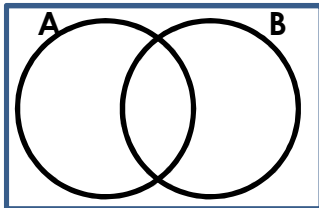
Set Notation	Pronunciation	Meaning	Venn Diagram	Answer
$A \cup B$	“A union B”	Everything in both sets; to unite; Used in OR problems		$\{1, 2, 3\}$
$A \cap B$	“A intersect B”	Only what is in common with both sets; Used in AND problems		$\{2\}$
\overline{A} or A'	“A complement”	Everything NOT in set A		$\{3, 4\}$
$(A \cup B)'$	“not A union B”	Everything NOT in set A and set B		$\{4\}$
$(A \cap B)'$	“not A intersect B”	Everything NOT in common between set A and set B		$\{1, 3, 4\}$

Name: _____ Date: _____

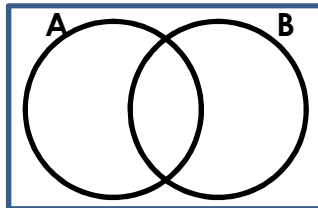
Using Venn Diagrams

Shade in the appropriate area of the Venn Diagram.

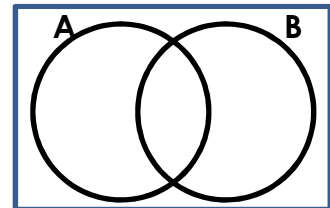
1. $A \cap B$



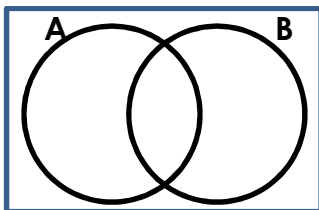
2. $A \cup B$



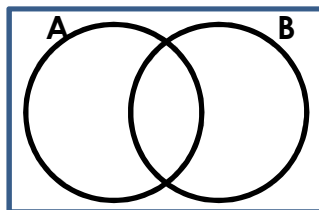
3. A'



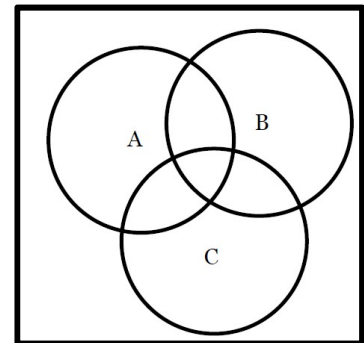
4. $A \cap B'$



5. $(A \cup B)'$



6. $B \cup C$



Mr. Grisham took a poll of his student's favorite type of weather. The students had the choice of hot, cold, and/or rain/snow. The results are displayed in the Venn Diagram. Write your answer as a reduced fraction.

_____ 6. Find $P(\text{Cold})$.

_____ 7. Find $P(\text{Warm})'$.

_____ 8. Find $P(\text{Cold} \cap \text{Warm})$.

_____ 9. Find $P(\text{Warm} \cap \text{Rain})$.

_____ 10. Find $P(\text{Warm} \cap \text{Cold} \cap \text{Rain})$.

_____ 11. Find $P(\text{Cold} \cup \text{Warm})$.

