

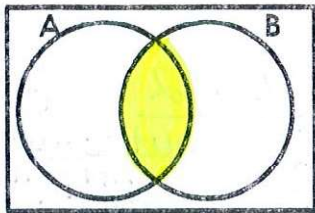
Name: Key

Date: _____

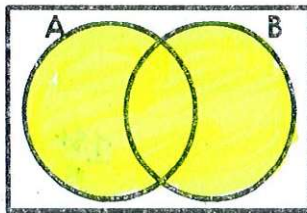
Using Venn Diagrams

Shade in the appropriate area of the Venn Diagram.

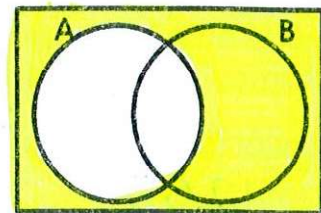
1. $A \cap B$



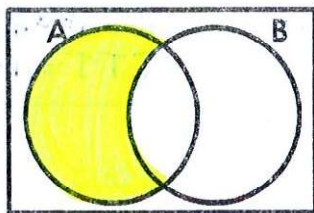
2. $A \cup B$



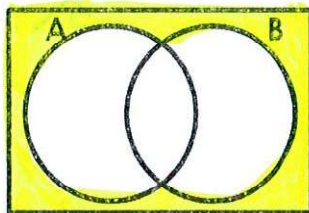
3. A'



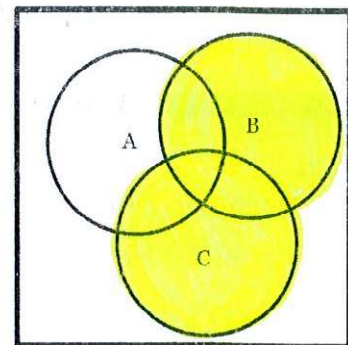
4. $A \cap B'$



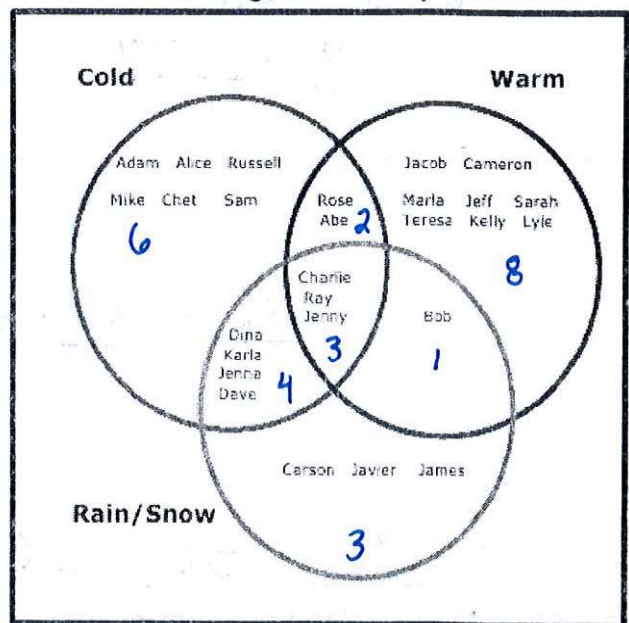
5. $(A \cup B)'$



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.



$\frac{5}{9}$ 6. Find $P(\text{Cold})$. $\frac{15}{27}$

$\frac{13}{27}$ 7. Find $P(\text{Warm})'$.

$\frac{5}{27}$ 8. Find $P(\text{Cold} \cap \text{Warm})$.

$\frac{4}{27}$ 9. Find $P(\text{Warm} \cap \text{Rain})$.

$\frac{1}{9}$ 10. Find $P(\text{Warm} \cap \text{Cold} \cap \text{Rain})$. $\frac{3}{27}$

$\frac{8}{9}$ 11. Find $P(\text{Cold} \cup \text{Warm})$. $\frac{24}{27}$