

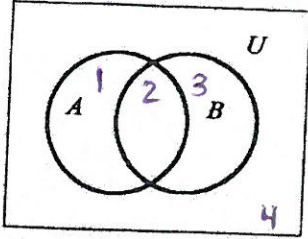
Unit 8A: Venn Diagrams

Section 8.1 Shading Practice

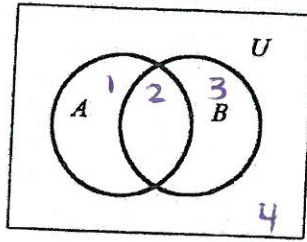
Note: $\bar{A} = A^c = A^c$

Shade the portion of the accompanying figure that represents each of the given sets.

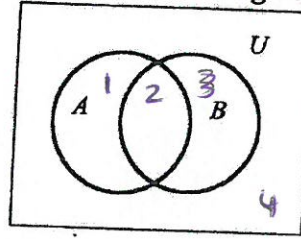
* Also state the regions



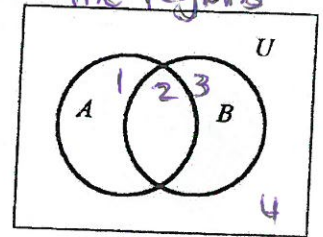
1. $A \cap B^c$
 $A \cap \bar{B}$



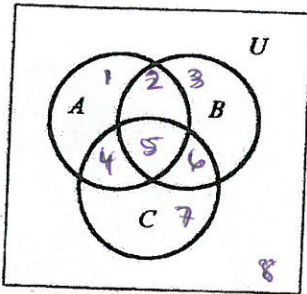
2. $A \cup B^c$
 $A \cup \bar{B}$



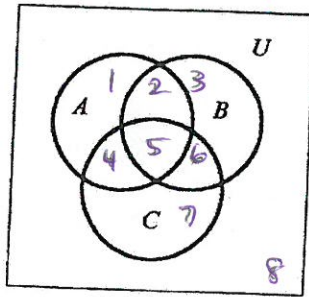
3. $A^c \cap B^c$
 $\bar{A} \cap \bar{B}$



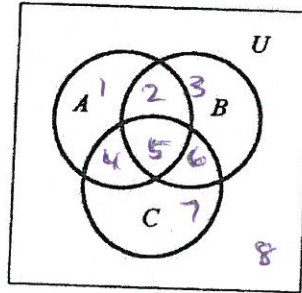
4. $(A \cap B)^c$
 $\overline{A \cap B}$



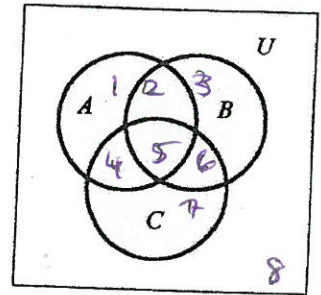
5. $A \cup B \cup C$



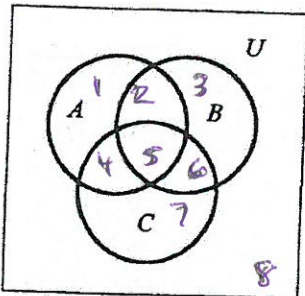
6. $A \cap B \cap C$



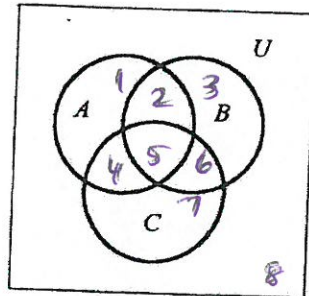
7. $A \cap B \cap C^c$
 $A \cap B \cap \bar{C}$



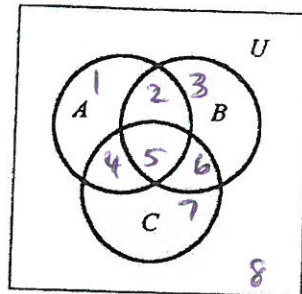
8. $A \cup B \cup C^c$
 $A \cup B \cup \bar{C}$



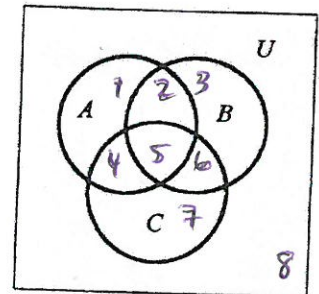
9. $A^c \cap B^c \cap C^c$
 $\bar{A} \cap \bar{B} \cap \bar{C}$



10. $(A \cup B)^c \cap C$
 $\overline{A \cup B} \cap C$



11. $(A \cap B)^c \cup C$
 $\overline{A \cap B} \cup C$



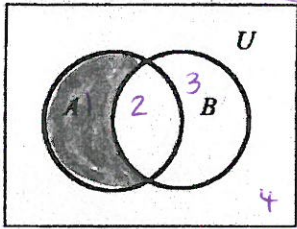
12. $(A \cap B \cap C)^c$
 $\overline{A \cap B \cap C}$

Answers →

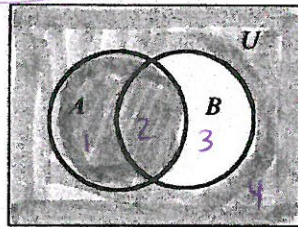
Section 6.1

Answers

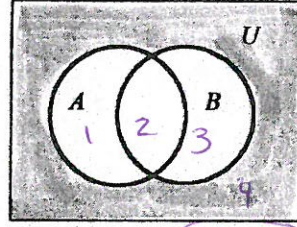
Shade the portion of the accompanying figure that represents each of the given sets.



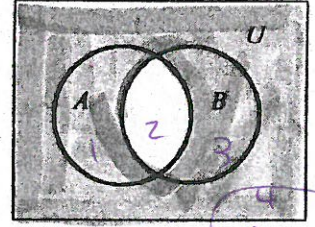
1. $A \cap B^c$ {1}



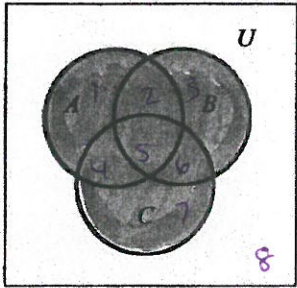
2. $A \cup B^c$ {1, 2, 4}



3. $A^c \cap B^c$ {4}

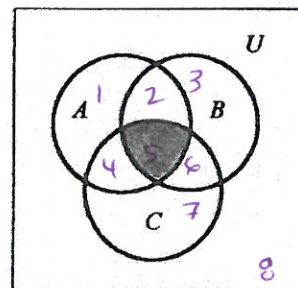


4. $(A \cap B)^c$ {1, 3, 4}



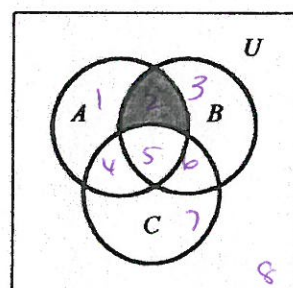
5. $A \cup B \cup C$

{1, 2, 3, 4, 5, 6, 7}



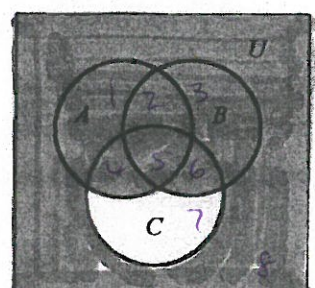
6. $A \cap B \cap C$

{5}



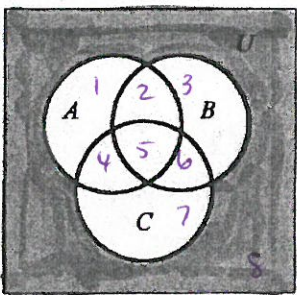
7. $A \cap B \cap C^c$

{2}



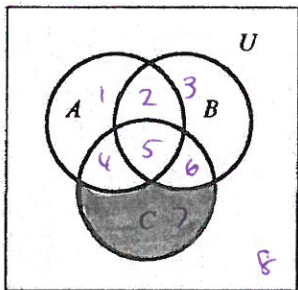
8. $A \cup B \cup C^c$

{1, 2, 3, 4, 5, 6, 8}



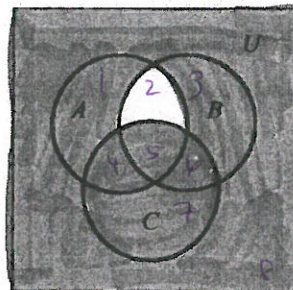
9. $A^c \cap B^c \cap C^c$

{8}



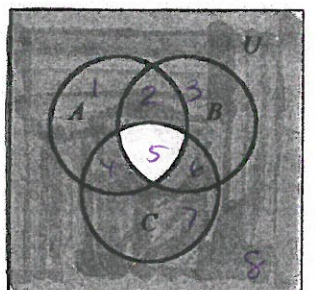
10. $(A \cup B)^c \cap C$

{7}



11. $(A \cap B)^c \cup C$

{1, 3, 4, 5, 6, 7, 8}



12. $(A \cap B \cap C)^c$

{1, 2, 3, 4, 6, 7, 8}