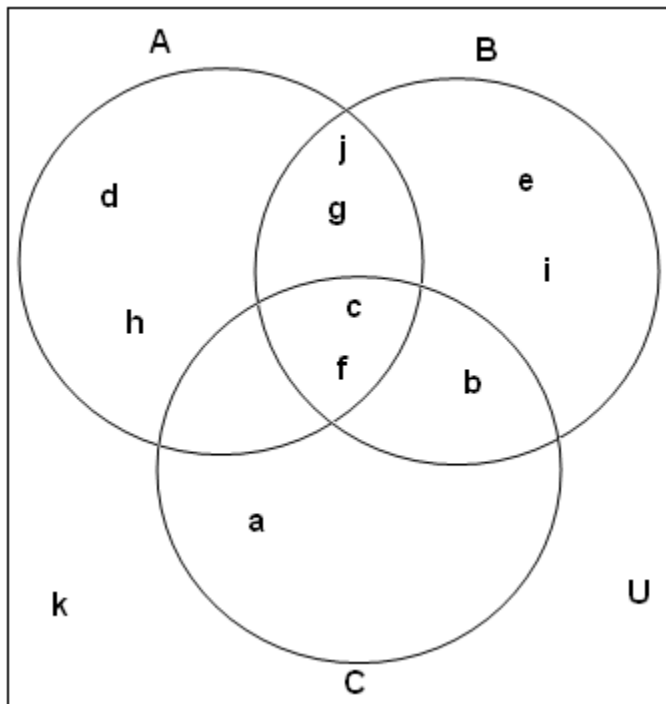


Student Name: _____

Score: _____

Venn Diagram – Three Circles

Fill in the blanks using the Venn diagram:



$$(A \cup B \cup C)' = \underline{\hspace{2cm}}$$

$$(A \cap B \cap C)' = \underline{\hspace{2cm}}$$

$$(A \cup B)' - B' = \underline{\hspace{2cm}}$$

$$(A \cap B)' - (A \cap C)' = \underline{\hspace{2cm}}$$

$$(A - B)' \cup (B - C)' = \underline{\hspace{2cm}}$$

$$(A \cap C)' \cap (B \cap C)' = \underline{\hspace{2cm}}$$

$$(A \cup B)' \cap (A \cup C)' = \underline{\hspace{2cm}}$$

$$A' - (B \cap C)' = \underline{\hspace{2cm}}$$

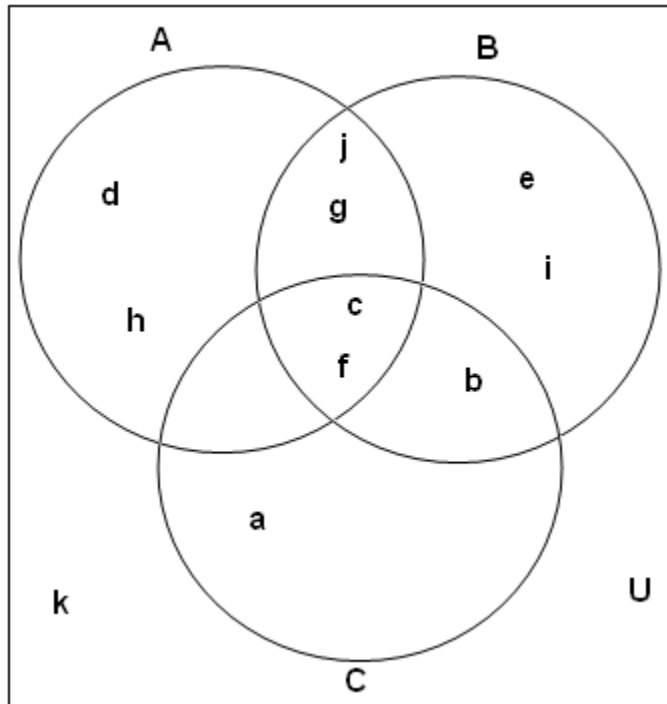
$$(A - C)' \cap (C - A)' = \underline{\hspace{2cm}}$$

$$(A \cup B)' \cap (B \cup C)' \cap (A \cup C)' = \underline{\hspace{2cm}}$$

Student Name: _____

Score: _____

Answers



$$(A \cup B \cup C)' = \{k\}$$

$$(A \cap B \cap C)' = \{a, b, d, e, g, h, i, j, k\}$$

$$(A \cup B)' - B' = \{\}$$

$$(A \cap B)' - (A \cap C)' = \{\}$$

$$(A - B)' \cup (B - C)' = \{a, b, c, d, e, f, g, h, i, j, k\}$$

$$(A \cap C)' \cap (B \cap C)' = \{a, d, e, g, h, i, j, k\}$$

$$(A \cup B)' \cap (A \cup C)' = \{k\}$$

$$A' - (B \cap C)' = \{b\}$$

$$(A - C)' \cap (C - A)' = \{c, e, f, i, k\}$$

$$(A \cup B)' \cap (B \cup C)' \cap (A \cup C)' = \{k\}$$