

Sets

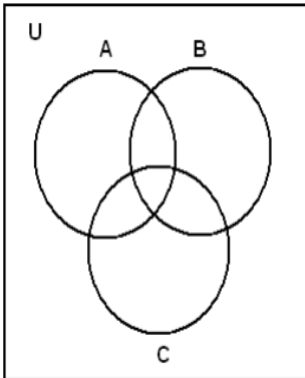
Mr Aidan Ryan

ARNMaths.weebly.com

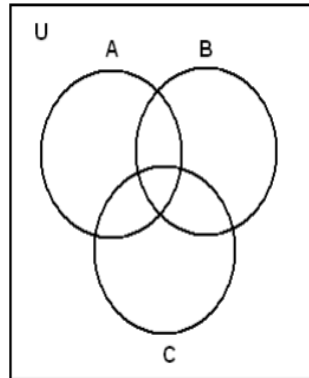
Question 1

Shade in the region below

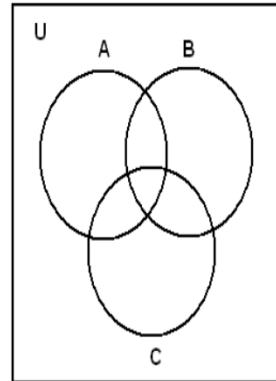
$$(A \cup B)' \cap C$$



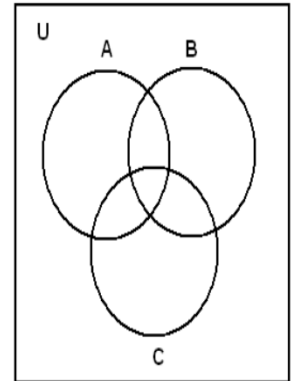
$$B' \cap (A \cap C)$$



$$A' - (B \cup C)$$

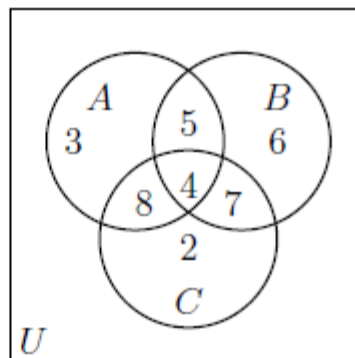


$$(A \cap B) \cup C$$



Question 2

Using the Venn diagram below, list the element of each of these sets.



(a) $A \cap B$

(c) $A \cap B \cap C$

(b) $B \cup C$

(d) $(A \cup B) \cap C$

Question 3

List the elements in each set.

(a) $\{x \mid x \text{ is an even natural number less than } 12\}$

(b) $\{x \mid x \text{ is a natural number greater than } 8\}$

(c) $\{x \mid x \text{ is an odd natural number } 2 \text{ and } 13\}$

(d) $\{x \mid x \text{ is an prime number less than } 18\}$

Question 4

Using the sets D, E, and F, list the elements in each set. If the set is empty write \emptyset .

$$D = \{3, 5, 7\} \quad E = \{2, 4, 6, 8\} \quad F = \{1, 2, 3, 4, 5\}$$

(a) $D \cap E$

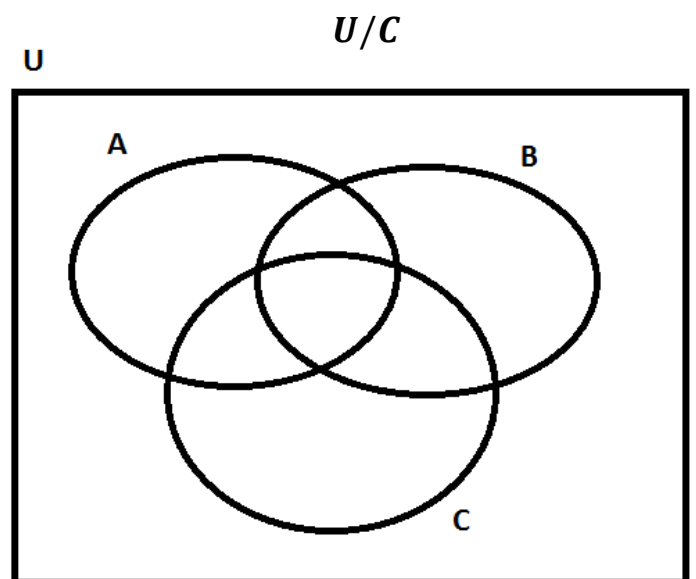
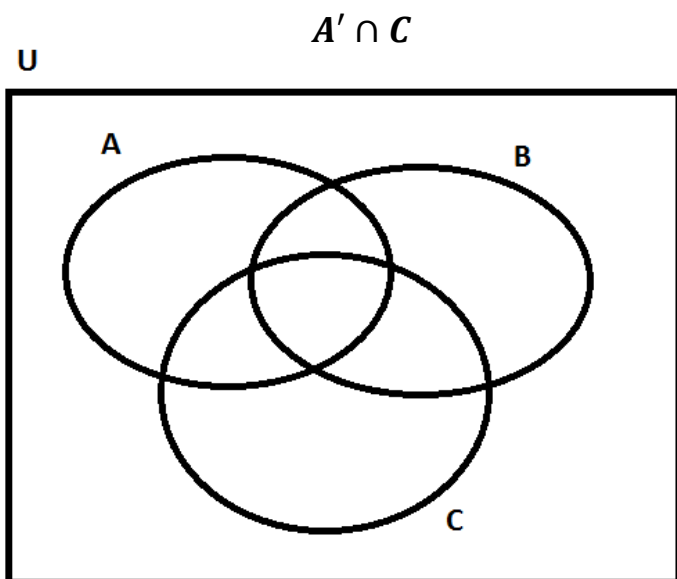
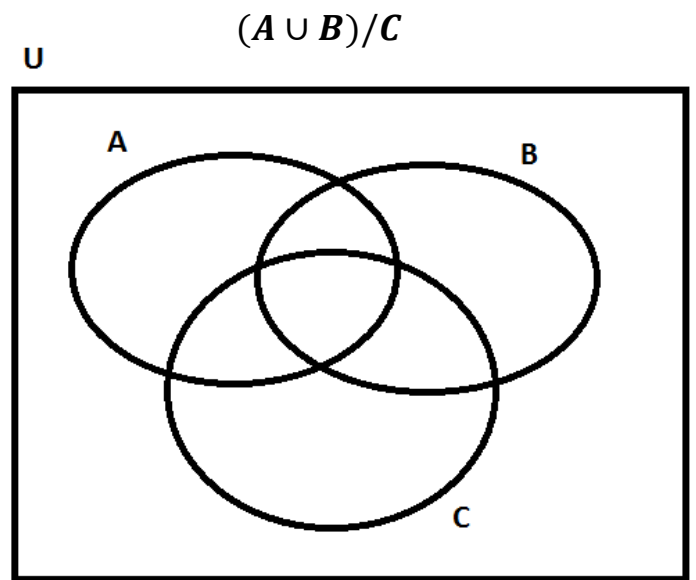
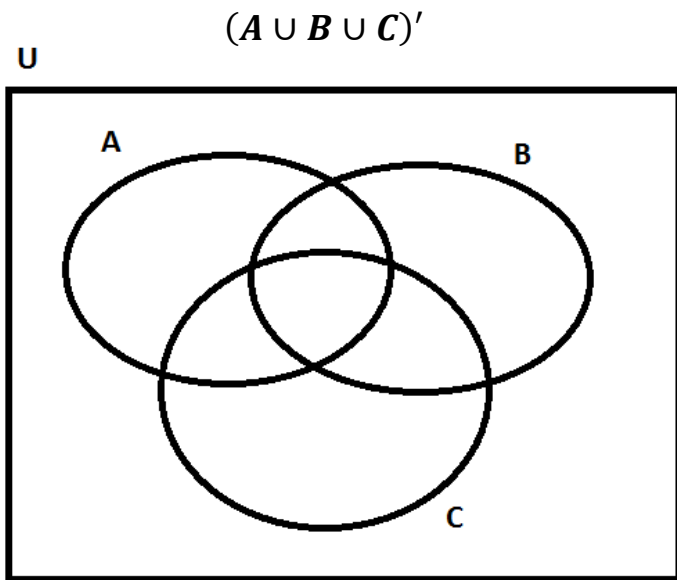
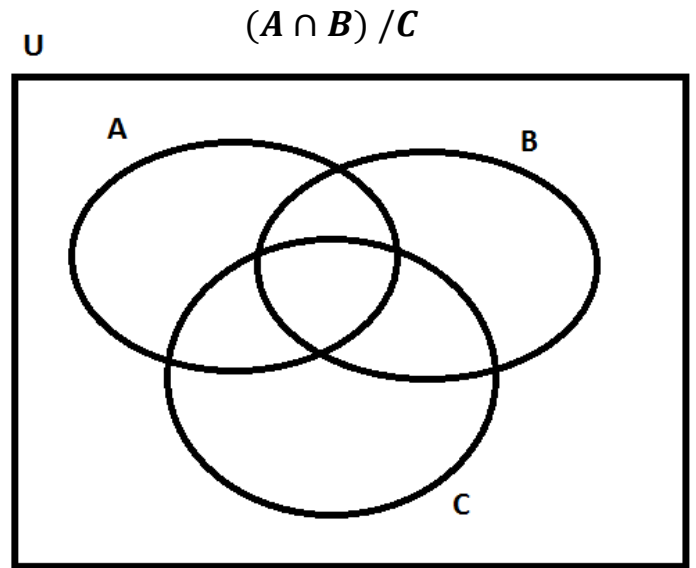
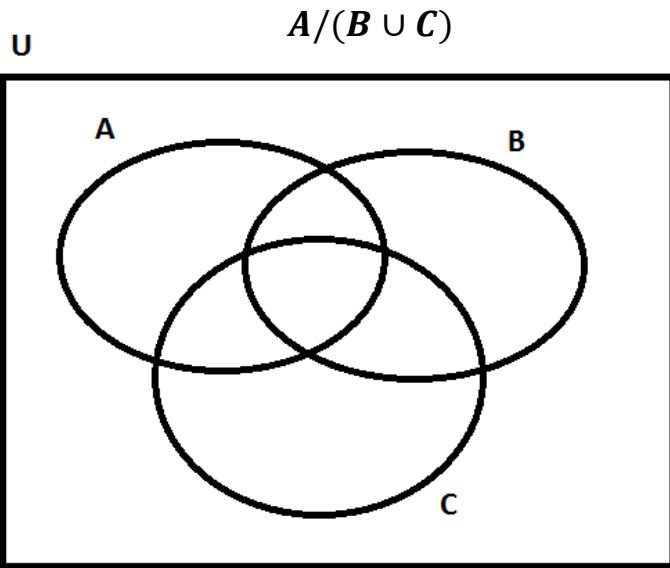
(c) $(D \cap E) \cup (F \cap E)$

(b) $(D \cup E) \cap F$

(d) $(D \cup E) \cap (D \cup F)$

Question 6

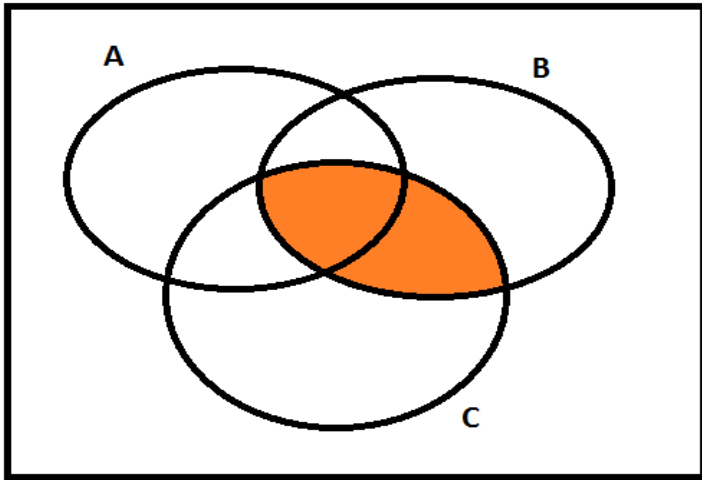
Shade the Named Region



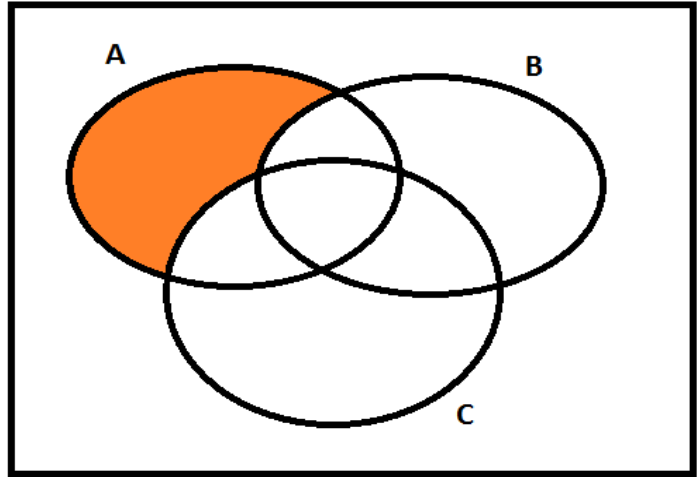
Question 7

Name the shaded region

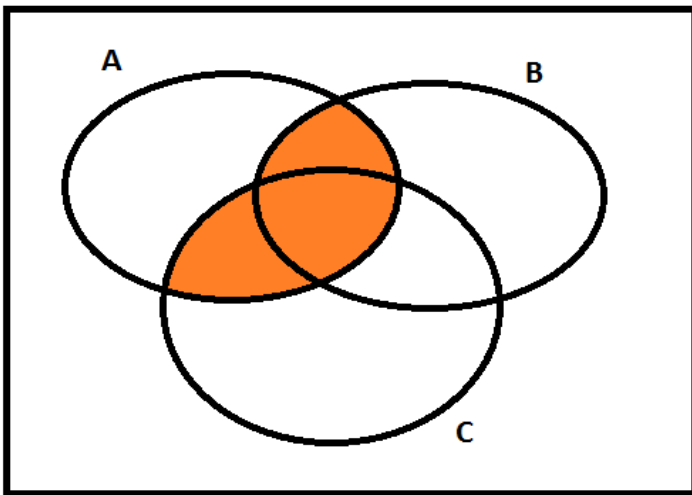
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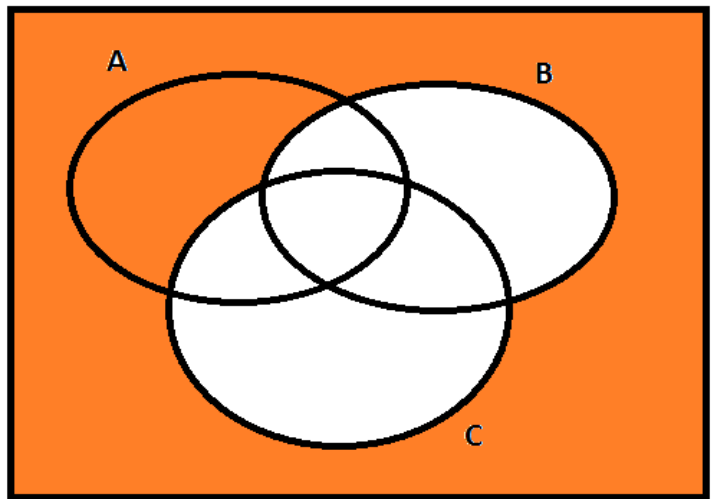
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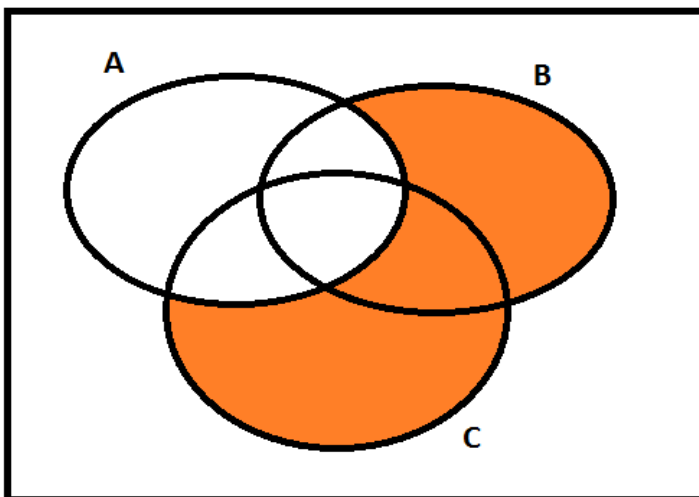
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