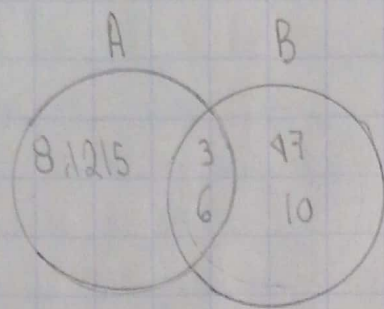


1:



20, 23, 64, 100

Desarrollo

Universo  $\rightarrow U = \{3, 4, 6, 7, 8, 10, 12, 15, 20, 23, 64, 100\}$

Conjunto A  $\rightarrow A = \{3, 6, 8, 12, 15\}$

Conjunto B  $\rightarrow B = \{3, 4, 6, 7, 10\}$

$A \cup B = \{3, 4, 6, 7, 8, 10, 12, 15\}$

A intersección B  $\rightarrow A \cap B = \{3, 6\}$

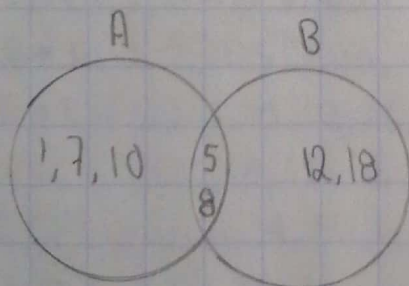
A menos B  $\rightarrow A - B = \{8, 12, 15\}$

B menos A  $\rightarrow B - A = \{4, 7, 10\}$

Complemento de A  $\rightarrow A^c = \{4, 7, 10, 20, 23, 64, 100\}$

Complemento de B  $\rightarrow B^c = \{8, 12, 15, 20, 23, 64, 100\}$

2:



2, 23, 45, 41

Desarrollo

$$\text{Universo} \rightarrow U = \{1, 2, 5, 7, 8, 10, 12, 18, 23, 41, 45\}$$

$$\text{Conjunto } A \rightarrow A = \{1, 5, 8, 7, 10\}$$

$$\text{Conjunto } B \rightarrow B = \{5, 8, 12, 18\}$$

$$A \cup B = \{1, 5, 7, 8, 10, 12, 18\}$$

$$A \text{ intersección } B \rightarrow A \cap B = \{5, 8\}$$

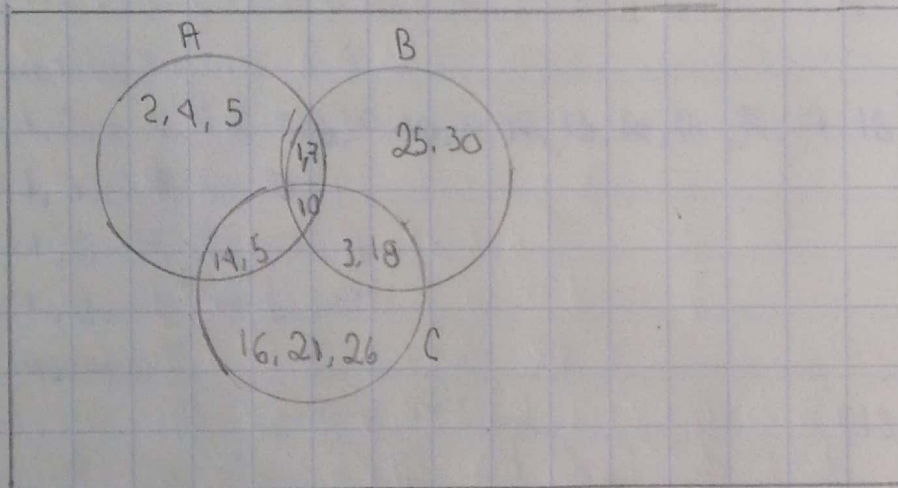
$$A \text{ menos } B \rightarrow A - B = \{1, 7, 10\}$$

$$B \text{ menos } A \rightarrow B - A = \{12, 18\}$$

$$\text{Complemento de } A \rightarrow A^c = \{2, 12, 18, 23, 45, 41\}$$

$$\text{Complemento de } B \rightarrow B^c = \{1, 2, 7, 10, 23, 41, 45\}$$

3:



Desarrollo

$$\text{Universo} \rightarrow U = \{1, 2, 3, 4, 5, 7, 10, 14, 15, 16, 18, 21, 25, 26, 30\}$$

$$\text{Conjunto } A \rightarrow A = \{1, 2, 4, 5, 7, 10, 14, 15\}$$

$$\text{Conjunto } B \rightarrow B = \{1, 3, 7, 10, 18, 25, 30\}$$

$$\text{Conjunto } C \rightarrow C = \{3, 10, 14, 15, 16, 18, 21, 26\}$$

$$A \cup B = \{1, 2, 3, 4, 5, 7, 10, 14, 15, 18, 25, 30\}$$

$$A \cup C = \{1, 2, 3, 4, 5, 7, 10, 14, 15, 16, 18, 21, 26\}$$

$$B \cup C = \{1, 3, 7, 10, 14, 15, 16, 18, 21, 25, 26, 30\}$$

$$A \cup B \cup C = \{1, 2, 3, 4, 5, 7, 10, 14, 15, 16, 18, 21, 25, 26, 30\} = U$$

$$A \text{ intersección } B \rightarrow A \cap B = \{1, 7, 10\}$$

$$B \text{ intersección } C \rightarrow B \cap C = \{3, 10, 18\}$$

$$A \text{ intersección } C \rightarrow A \cap C = \{10, 14, 15\}$$

$$A \cap B \cap C = \{10\}$$

$$A \text{ menos } B \rightarrow A - B = \{2, 4, 5, 14, 15\}$$

$$A \text{ menos } C \rightarrow A - C = \{1, 2, 4, 5, 7\}$$

$$B \text{ menos } C \rightarrow B - C = \{1, 7, 25, 30\}$$

$$B \text{ menos } A \rightarrow B - A = \{3, 18, 25, 30\}$$

$$C \text{ menos } A \rightarrow C - A = \{3, 18, 16, 21, 26\}$$

$$C \text{ menos } B \rightarrow C - B = \{14, 15, 16, 21, 26\}$$

$$\text{Complemento de } A \rightarrow A^c = \{3, 16, 18, 21, 25, 26, 30\}$$

$$\text{Complemento de } B \rightarrow B^c = \{2, 4, 5, 14, 15, 16, 21, 26\}$$

$$\text{Complemento de } C \rightarrow C^c = \{1, 2, 4, 5, 7, 25, 30\}$$

## Ejercicio 4

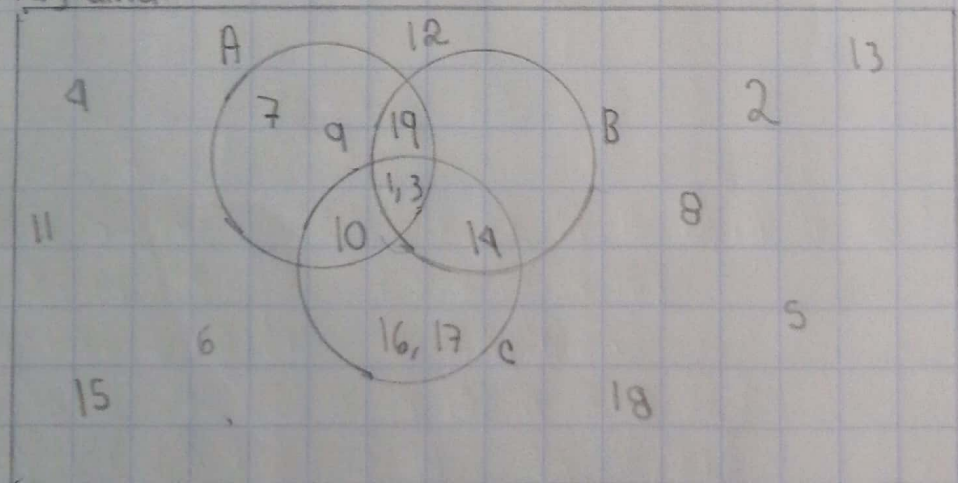
$$U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19\}$$

$$A = \{1, 3, 7, 9, 10, 19\}$$

$$B = \{1, 3, 14, 19\}$$

$$C = \{1, 3, 10, 14, 16, 17\}$$

## Diagrama



$$\text{Conjunto } A \rightarrow A = \{1, 3, 7, 9, 10, 19\}$$

$$\text{Conjunto } B \rightarrow B = \{1, 3, 14, 19\}$$

$$\text{Conjunto } C \rightarrow C = \{1, 3, 10, 14, 16, 17\}$$

$$A \cup B = \{1, 3, 7, 9, 10, 14, 19\}$$

$$B \cup C = \{1, 3, 10, 14, 16, 17, 19\}$$

$$A \cup B \cup C = \{1, 3, 7, 9, 10, 14, 16, 17, 19\}$$

Francisco Javier Gómez Hernández

06-01-2022

A intersección B  $\rightarrow A \cap B = \{1, 3, 19\}$

B intersección C  $\rightarrow B \cap C = \{1, 3, 14\}$

A intersección C  $\rightarrow A \cap C = \{1, 3, 10\}$

$A \cap B \cap C = \{1, 3\}$

A menos B  $\rightarrow A - B = \{7, 9, 10\}$

B menos A  $\rightarrow B - A = \{14\}$

A menos C  $\rightarrow A - C = \{7, 9, 19\}$

C menos A  $\rightarrow C - A = \{14, 16, 17\}$

B menos C  $\rightarrow B - C = \{19\}$

C menos B  $\rightarrow C - B = \{10, 16, 17\}$

complemento de A  $\rightarrow A^c = \{2, 4, 5, 6, 8, 11, 12, 13, 14, 15, 16, 17, 18\}$

Complemento de B  $\rightarrow B^c = \{2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18\}$

Complemento de C  $\rightarrow C^c = \{2, 4, 5, 6, 7, 8, 9, 11, 12, 13, 15, 18, 19\}$