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**Nombre del trabajo: ejercicios ventt**

PASIÓN POR EDUCAR

**Materia: Probabilidad y estadística**

**Grado: 5° cuatrimestre**

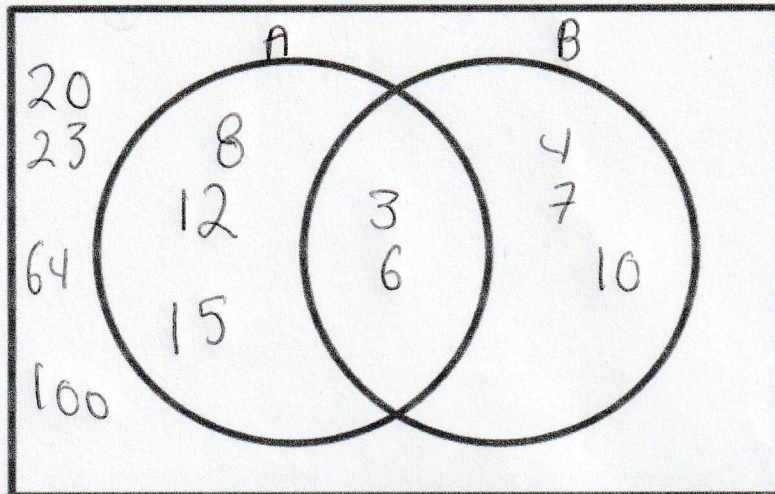
**Grupo: BRH05EMC0120-A**

EJERCICIOS VENTT

David Ramirez López

1-

U



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

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

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

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

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

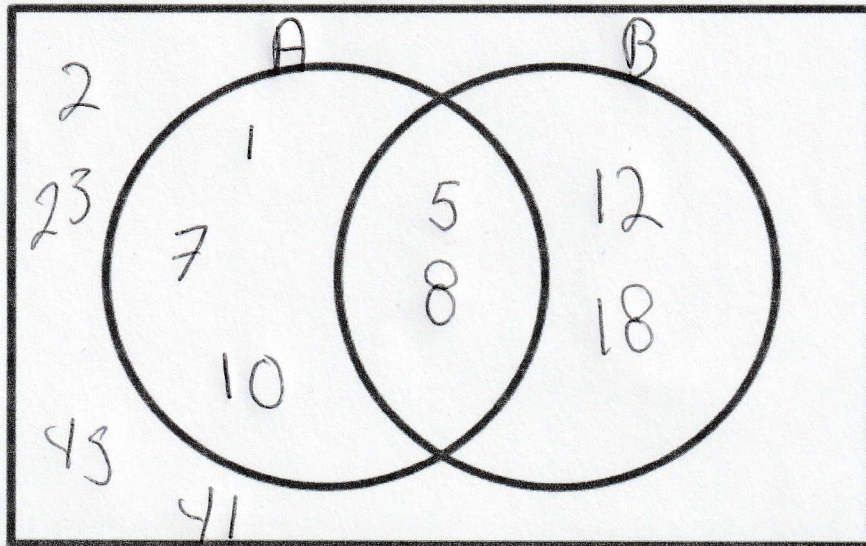
Complemento de B  $\rightarrow B^c = \{8, 12, 15, 20, 23, 64, 100\}$

Ninguno  $= \{20, 23, 64, 100\}$

EJERCICIOS VENTT

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2: U



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

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

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

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

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

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

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

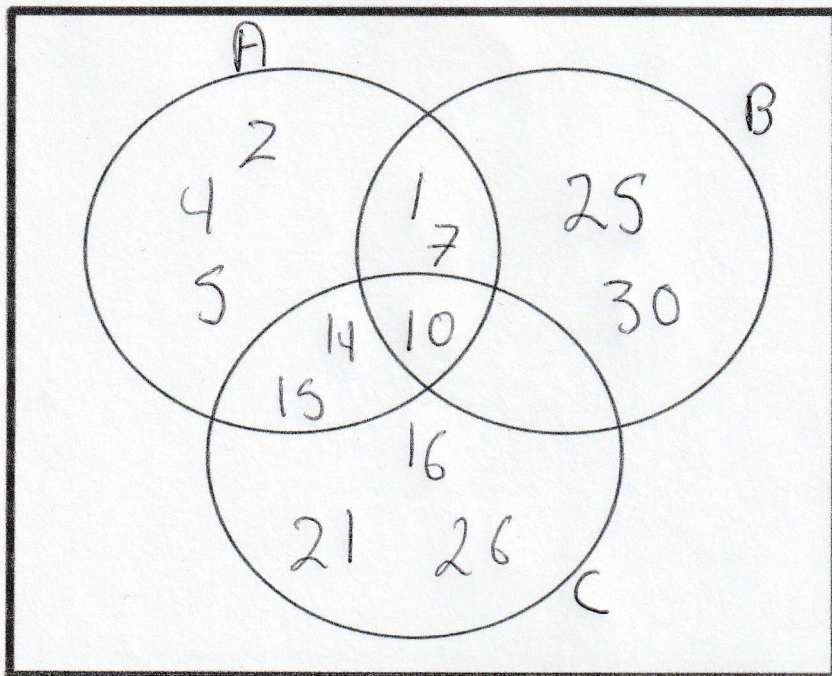
Complemento de A  $\rightarrow A^c = \{2, 12, 18, 23, 45, 41\}$

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

3- U

### EJERCICIOS VENTT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## EJERCICIOS VENTT

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

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

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

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

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

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

### Ejercicio 4

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

$$A = 1, 3, 7, 9, 10, 19$$

$$B = 1, 3, 14, 19$$

$$C = 1, 3, 10, 14, 16, 17$$

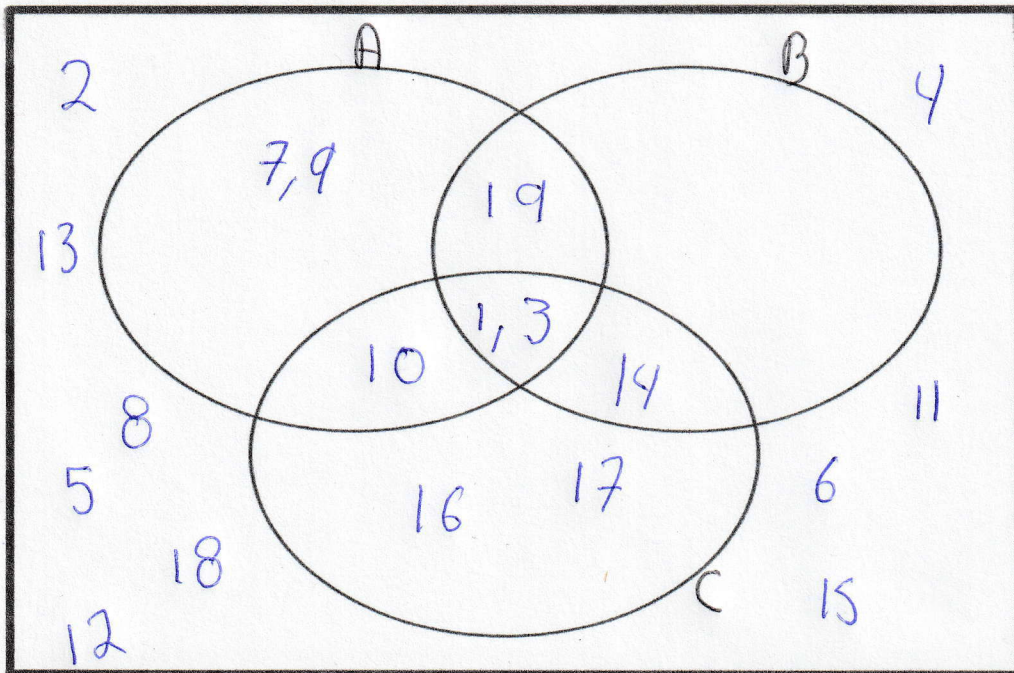
De los siguientes diagramas encontrar

- Universo
- Conjuntos
- intersecciones
- restas
- Complementos

EJERCICIOS VENTT

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4- U



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

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

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

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

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

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

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

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

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

## EJERCICIOS VENTT

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

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

$$B \text{ Menos } C \rightarrow B - C = \{19\}$$

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

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

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

$$\text{Complemento de } C \rightarrow C^c = \{2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 18, 19\}$$