



OPERACIONES CON CONJUNTOS

Ejercicios para Resolver

1. Sean los conjuntos:

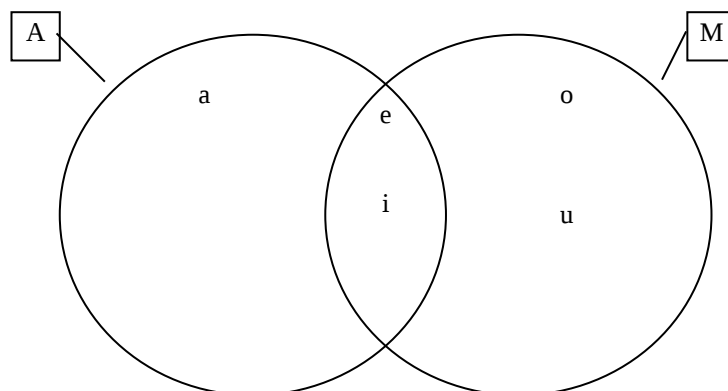
$A = \{x/x \in \mathbb{N}; 3 \leq x \leq 15; x \text{ es impar}\}$

$B = \{x/x \in \mathbb{N}; 4 \leq x \leq 9; x \text{ es par}\}$

Calcular: gráfica y simbólicamente

$A \cap B = \{ \quad \quad \quad \}$

2. Completa y colorea

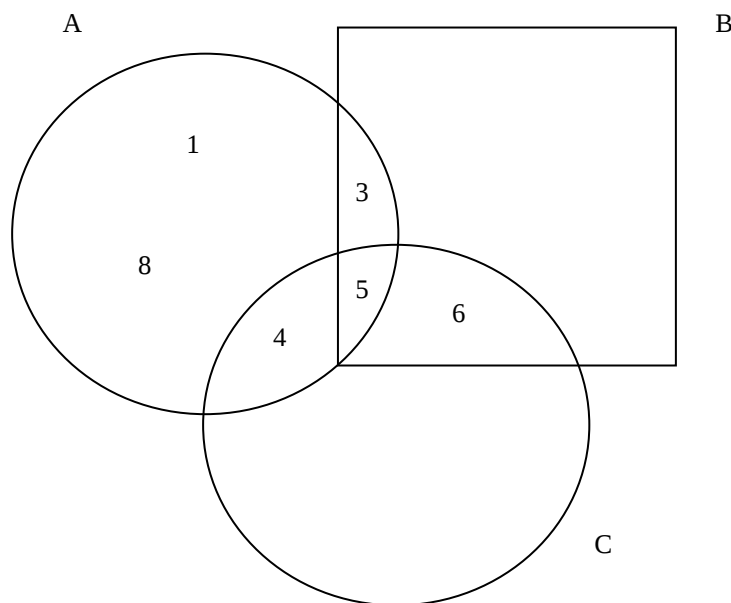


$A \cap M = \{ \quad \quad \}$

$M \cap A = \{ \quad \quad \}$

$A = \{ \quad \quad \}$

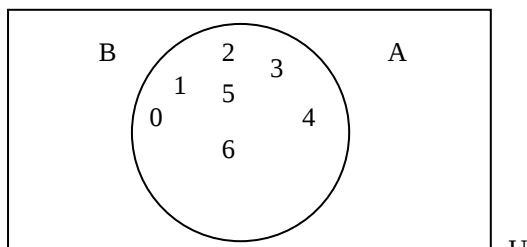
$M = \{ \quad \quad \}$



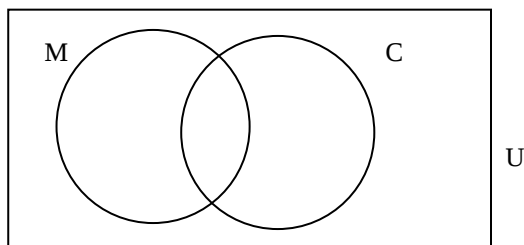
$$\begin{aligned}
 A \cap B &= \{ \quad \quad \quad \} \\
 A \cap C &= \{ \quad \quad \quad \} \\
 B \cap C &= \{ \quad \quad \quad \} \\
 A &= \{ \quad \quad \quad \} \\
 B &= \{ \quad \quad \quad \} \\
 C &= \{ \quad \quad \quad \}
 \end{aligned}$$

3. Dado los siguientes conjuntos halla su intersección y graficala

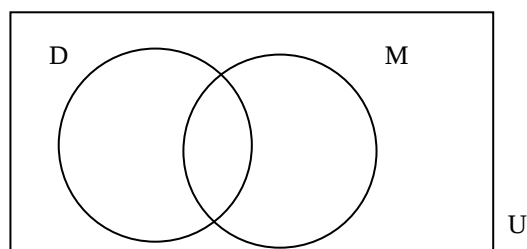
- 1) $A = \{0; 1; 2; 3; 4; 5; 6\}$
 $B = \{6; 5; 4; 3; 2; 1; 0\}$
 $A \cap B = \{0; 1; 2; 3; 4; 5; 6\}$



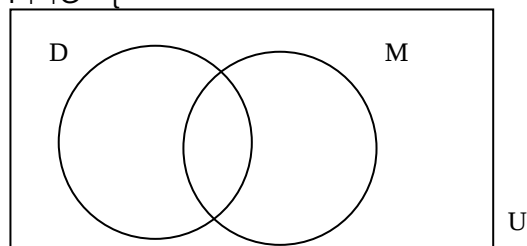
- 2) $M = \{\text{Juan, Pedro, Pablo}\}$
 $C = \{\text{Felipe y Pablo}\}$
 $M \cap C = \{$



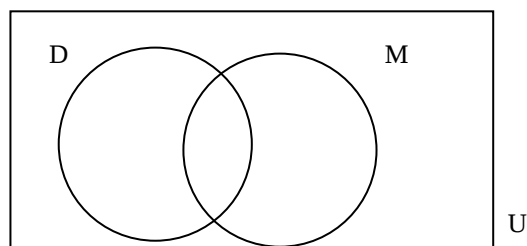
- 3) $D = \{x/x \text{ es día de la semana}\}$
 $M = \{\text{martes, miércoles}\}$
 $D \cap M = \{$



- 4) $F = \{\text{azul, rojo, negro}\}$
 $G = \{\text{negro, blanco}\}$
 $F \cap G = \{$



- 5) $V = \{x/x \text{ es vocal}\}$
 $W = \{y/y \text{ es letra del alfabeto}\}$
 $V \cap W = \{$





UNIÓN DE CONJUNTOS ($\cup$)

1. Sean los conjuntos:

$R = \{x/x \in \mathbb{N}; 4 \leq x \leq 10; x \text{ es múltiplo de } 2\}$

$T = \{x/x \in \mathbb{N}; 5 \leq x \leq 15; x \text{ es múltiplo de } 5\}$

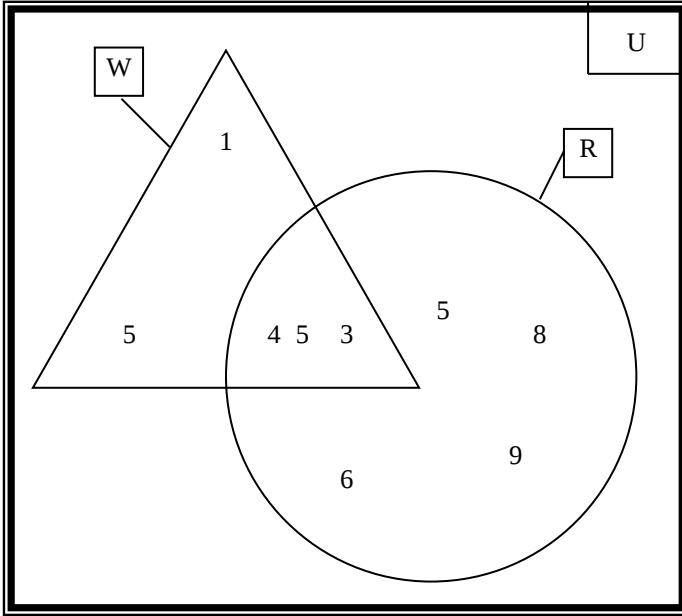
Representa gráficamente $R \cup T$, teniendo en cuenta las tres formas:

A large, empty rectangular box with a black border, intended for the student to draw a Venn diagram representing the union of sets R and T.

Responde:

¿Cuántos elementos tiene $R \cap T$?

2. Completa



$$W = \{ \quad \quad \quad \}$$

$$R = \{ \quad \quad \quad \}$$

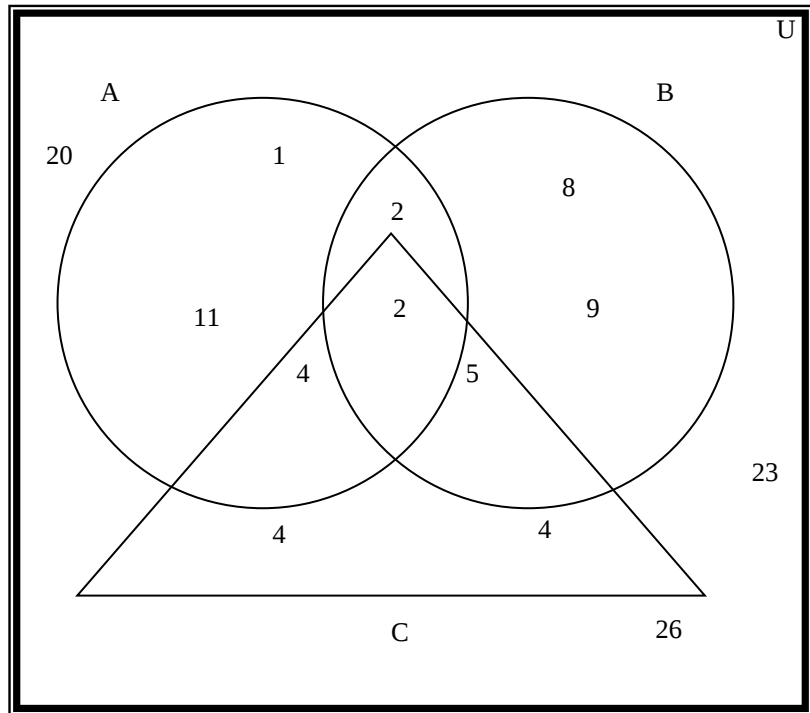
$$R \cup W = \{ \quad \quad \quad \}$$

$$R \cap W = \{ \quad \}$$

$$R(W) = \{ \quad \}$$

$$R(W) = \{ \quad \quad \quad \}$$

$$R(R) = \{ \quad \}$$



$$W = \{ \quad \quad \quad \}$$

$$B = \{ \quad \quad \quad \}$$

$$C = \{ \quad \quad \quad \}$$

$$A \cup B = \{ \quad \quad \quad \}$$

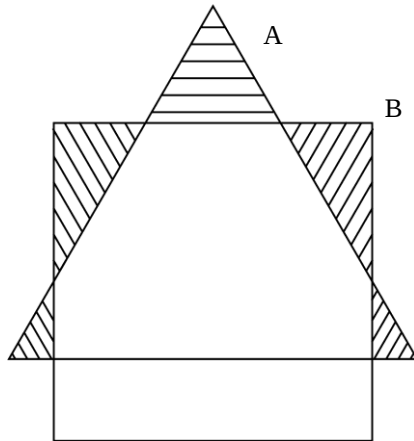
$$A \cup C = \{ \quad \quad \quad \}$$

$$B \cup C = \{ \quad \quad \quad \}$$

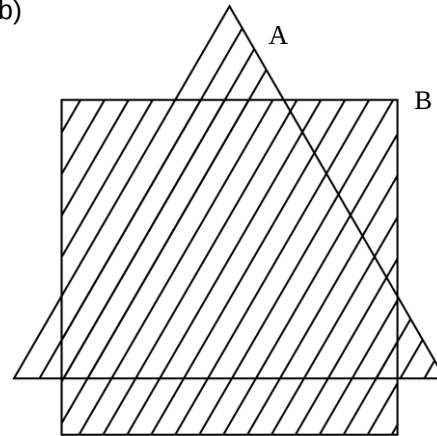
$$A \cup B \cup C = \{ \text{ } \}$$

3. Señala cual es $A \cup B$

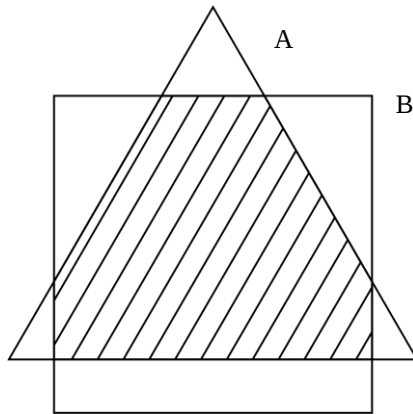
a)



b)



c)



d)

