

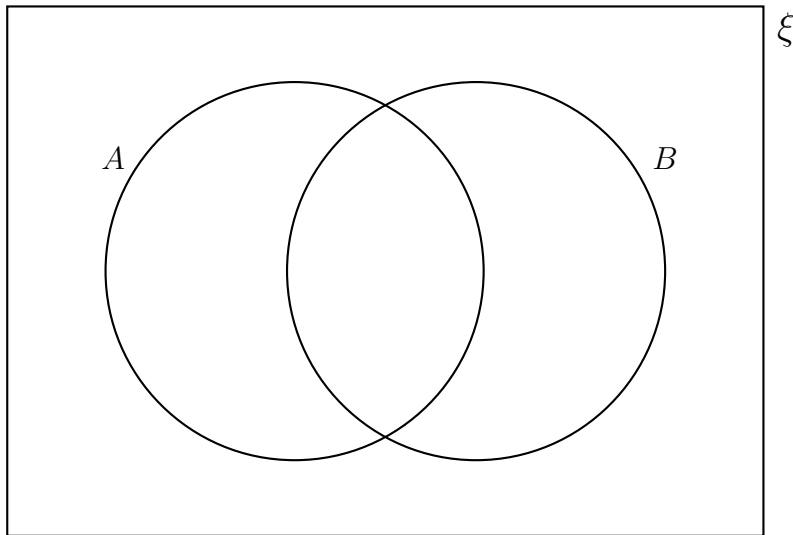
1. $\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12\}$

$$A \cap B = \{12\}$$

$$A \cup B = \{4, 6, 8, 12\}$$

$$B = \{6, 12\}$$

Complete this Venn diagram for this information.



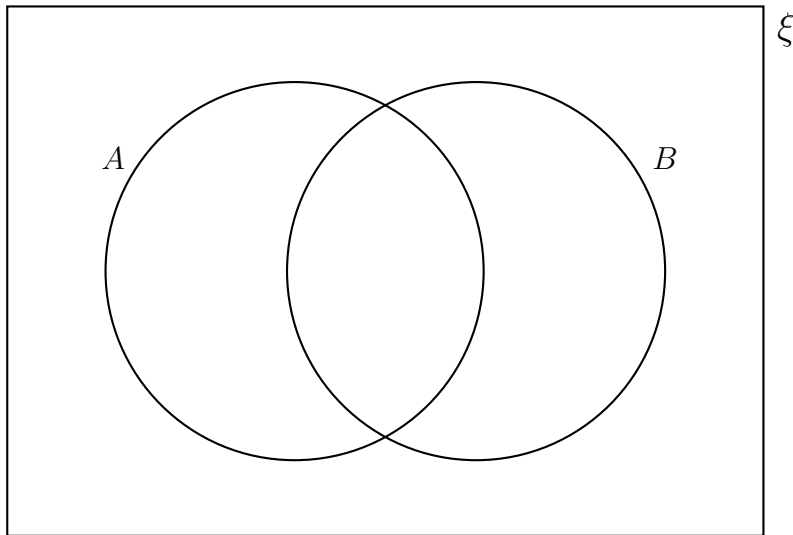
2. $\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

$$A = \{2, 4, 6, 8, 10\}$$

$$A \cap B = \{4\}$$

$$A \cup B = \{1, 2, 4, 6, 8, 9, 10\}$$

Complete this Venn diagram for this information.



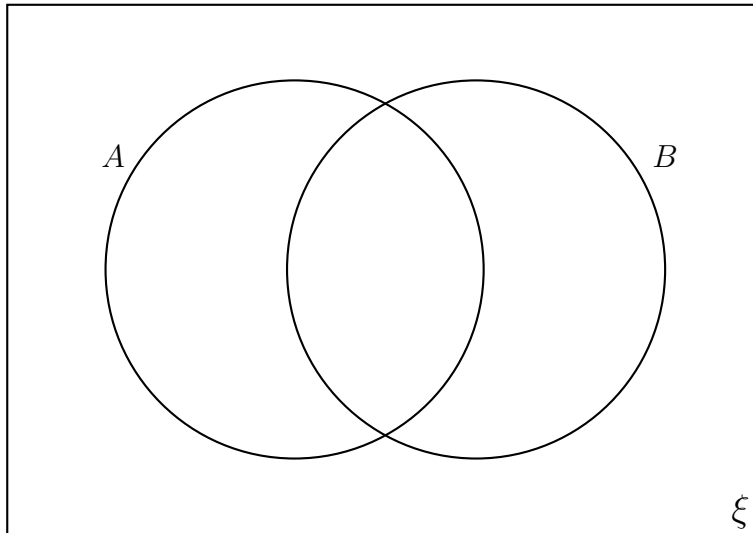
3. $\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

$$A = \{2, 3, 5, 7\}$$

$$A \cap B = \{3\}$$

$$A \cup B = \{1, 2, 3, 5, 7, 9\}$$

Complete this Venn diagram for this information.



Answers

$$\begin{aligned} 1. \quad & A \cap B' = \{4, 8\} \\ & A \cap B = \{12\} \\ & A' \cap B = \{6\} \\ A' \cap B' &= \{1, 2, 3, 5, 7, 9, 10, 11\} \end{aligned}$$

$$\begin{aligned} 2. \quad & A \cap B' = \{2, 6, 8, 10\} \\ & A \cap B = \{4\} \\ & A' \cap B = \{1, 9\} \\ A' \cap B' &= \{3, 5, 7\} \end{aligned}$$

$$\begin{aligned} 3. \quad & A \cap B' = \{2, 5, 7\} \\ & A \cap B = \{3\} \\ & A' \cap B = \{1, 9\} \\ A' \cap B' &= \{4, 6, 8, 10\} \end{aligned}$$