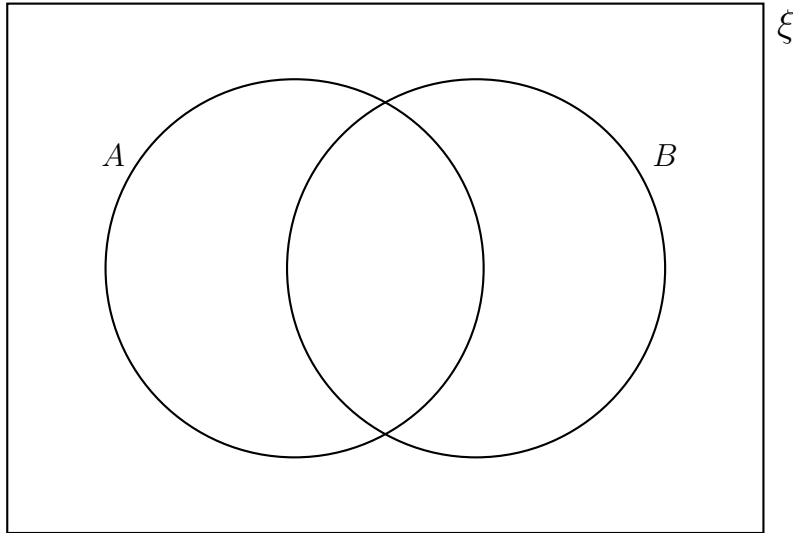


1. $\xi = \{\text{integers 1 to 15}\}$

$A = \{\text{factors of 20}\}$

$B = \{\text{factors of 15}\}$

Complete this Venn diagram for this information.

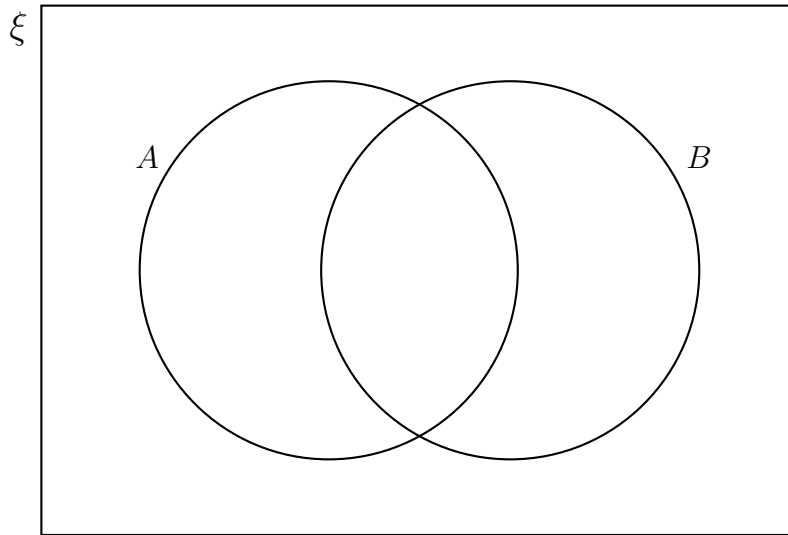


2. $\xi = \{11, 12, 13, 14, 15, 16, 17, 18, 19, 20\}$

$A = \{\text{multiples of 3}\}$

$B = \{\text{odd numbers}\}$

Complete this Venn diagram for this information.

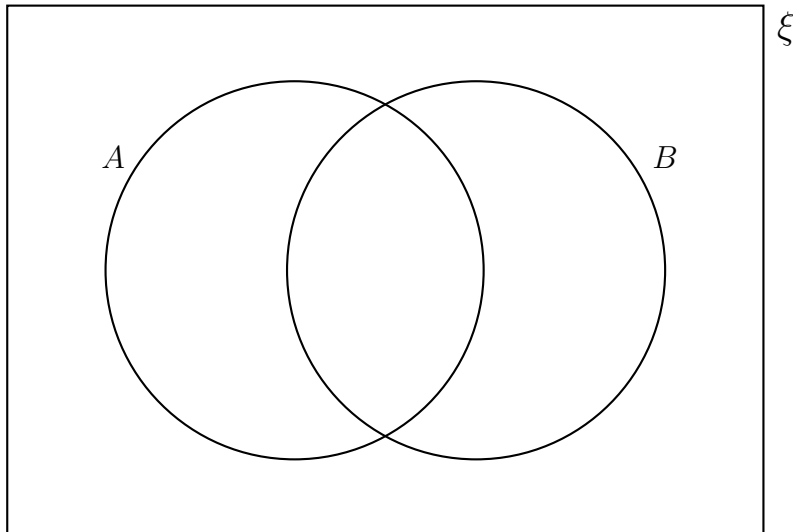


3. $\xi = \{\text{integers 1 to 10}\}$

$A = \{\text{factors of 8}\}$

$B = \{\text{even numbers}\}$

Complete this Venn diagram for this information.



Answers

1. $A \cap B' = \{2, 4, 10\}$

$A \cap B = \{1, 5\}$

$A' \cap B = \{3, 15\}$

$A' \cap B' = \{6, 7, 8, 9, 11, 12, 13, 14\}$

2. $A \cap B' = \{12, 18\}$

$A \cap B = \{15\}$

$A' \cap B = \{11, 13, 17, 19\}$

$A' \cap B' = \{14, 16, 20\}$

3. $A \cap B' = \{1\}$

$A \cap B = \{2, 4, 8\}$

$A' \cap B = \{6, 10\}$

$A' \cap B' = \{3, 5, 7, 9\}$