

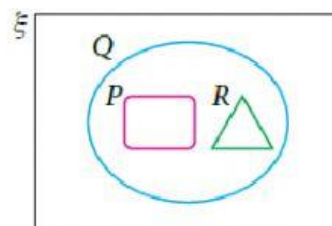


1. Given that $\xi = \{\text{whole numbers which are less than 10}\}$, $A = \{\text{factors of 18}\}$ and $B = \{0, 4, 5, 7, 8\}$. With the help of a Venn diagram, determine whether $A' = B$.

2. Based on the Venn diagram, state the relationship between

(a) P Q ,

(b) Q R .



3. Given that $K = \{\text{perfect squares which are less than 20}\}$,
 (a) write all the possible subsets of K .
 (b) if $L = \{1, 2, 3, \dots, 20\}$, draw a Venn diagram to represent the relationship between K and L .

Fill in every subset in ascending order

(a) $\emptyset, \{\text{\}, \{\text{\}, \{\text{\}, \{\text{\}, \{1, \text{\}, \{1, \text{\}, \{1, \text{\},$

$\{4, \text{\}, \{4, \text{\}, \{9, \text{\}, \{1, \text{, \text{\},$

$\{1, \text{, 16\}, \{4, \text{, \text{\}, \{\text{, \text{, \text{, \text{\}$

- (b) Select the Venn diagram that represents the relationship between K and L .

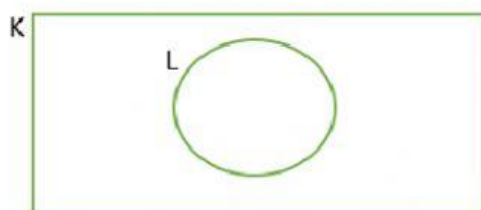


Diagram 1

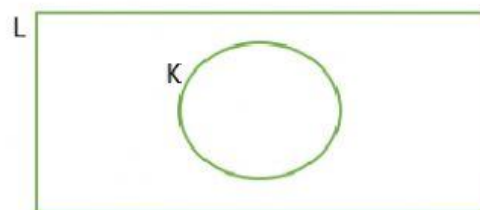


Diagram 2



4. In a class, some of the girls wear spectacles while all of the boys do not wear spectacles. Sets ξ , P , Q and R are defined as follows:

$\xi = \{\text{students in the class}\}$

$P = \{\text{girls}\}$

$Q = \{\text{boys}\}$

$R = \{\text{students who wear spectacles}\}$

Represent the relationship between sets ξ , P , Q and R , using a Venn diagram.

Select the Venn diagram that represents the relationship in Question 4.

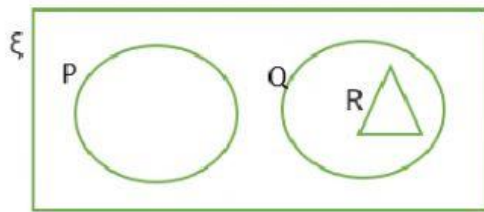


Diagram 1

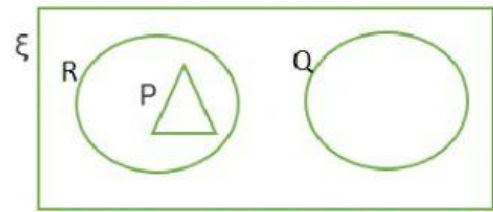


Diagram 2

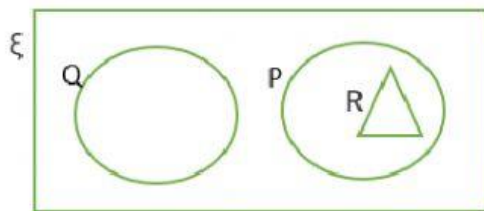


Diagram 3

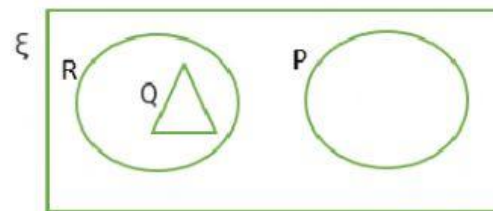
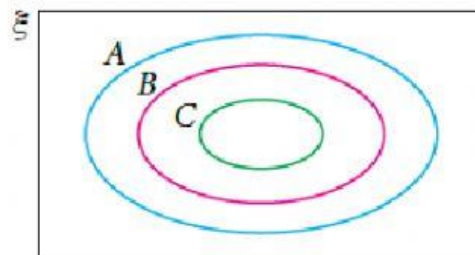


Diagram 4

5.



Based on the Venn diagram, write the relationship between sets ξ , A , B and C .

$C \square B \square A \square \xi$

$\xi \square A \square B \square C$