1. For the following questions let $C=\{-1,2,4,6\}$, $F=\{3,7,-2,4,6,1\}$, $A=\{3,5,-2\}$

    (**1**) Write down the elements of set F .

    (**2**) Write down the elements of the set $F \cup C$.

    (**3**) Write down the elements of the set $C \cap F$.

    (**4**) Write down the elements of the set $C \backslash F$.

    (**5**) Write down the elements of the set $C \backslash (F \cup A)$. Shade the corresponding region on the Venn diagram.

    (**6**) Write down the elements of the set $(F \cup A) \backslash C$.

    (**7**) Write down the elements of the set $A \cup (C \cap F)$.

    (**8**) Write down the elements of the set $C \cap \emptyset$.

    (**9**) Write down the elements of the set $(A \cap C) \backslash (F \backslash A)$.

2. For the following questions let $B=\{-3,2,9,8,6\}$, $D=\{x \mid x \in \mathbb{N}, 2 \le x < 5\}$, $G=\{-3,3,-1,-2\}$

    (**1**) Write down the elements of set G .

    (**2**) Write down the elements of the set $B \cup D$.

    (**3**) Write down the elements of the set $D \cap G$.

    (**4**) Write down the elements of the set $D \backslash B$.

    (**5**) Write down the elements of the set $G \backslash (B \cup D)$. Shade the corresponding region on the Venn diagram.

    (**6**) Write down the elements of the set $(D \backslash G) \cap B$.

    (**7**) Write down the elements of the set $G \cap (D \cup B)$.

    (**8**) Write down the elements of the set $D \backslash \emptyset$.

    (**9**) Write down the elements of the set $(G \cup B) \backslash (B \cap D)$.

3. For the following questions let $F=\{3,5,9\}$, $C=\{-3,3,0,9,4,8,1\}$, $E=\{z \mid z \in \mathbb{N}, 4 < z \le 7\}$

    (**1**) Write down the elements of set F .

    (**2**) Write down the elements of the set $C \cup F$.

    (**3**) Write down the elements of the set $F \cap E$.

    (**4**) Write down the elements of the set $F \backslash E$.

    (**5**) Write down the elements of the set $C \backslash (E \cup F)$. Shade the corresponding region on the Venn diagram.

    (**6**) Write down the elements of the set $(E \cup F) \backslash C$.

    (**7**) Write down the elements of the set $F \cap (E \backslash C)$.

    (**8**) Write down the elements of the set $\emptyset \cup C$.

    (**9**) Write down the elements of the set $(F \backslash F) \backslash (E \backslash C)$.