

7. Given $M = \{M, U, L, T, I, P, L, Y\}$ and

$D = \{D, I, V, I, D, E, \}$.

(a) Write down $M \cap D$.

Ans. _____ [1]

(b) $T = \{2, 4, 5\}$.
Write down $n(T)$.

Ans. _____ [1]

$$\mathcal{E} = \{ a, b, c, d, e, f \}$$

$$V = \{ a, e \}$$

(a) Write in set notation V is a subset of $\mathcal{E}$

Answer _____ [1]

(b) List V^c

Answer _____ [2]

15. Rewrite the following sentences, using set notation.

(a) 12 is a member of the set G.

Answer _____ [1]

(b) D is an empty set.

Answer _____ [1]

(c) The number of elements in set B is 10.

Answer _____ [1]

(b) $\xi = \{\text{whole numbers from } 1 - 9\}$

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

$F = \{\text{factors of } 4\}$

List the members of the following sets:

(i) T ,

Answer _____ [1]

(ii) F ,

Answer _____ [1]

(iii) $T \cap F$

Answer _____ [1]

(c) Write down

$n(T \cup F)$

Answer _____ [1]