

Exercise - 10 (E)

1. Write the Cardinal number of each of the following sets :-

i) $A = \{0, 1, 2, 4\} - 4$

ii) $B = \{-3, -1, 1, 3, 5, 7\} - 6$

iii) $C = \{\} - 0$

iv) $D = \{3, 2, 2, 1, 3, 1, 2\} - 3$

v) $E = \{\text{Natural numbers between 15 and 20}\} - 4$

vi) $F = \{\text{whole numbers from 8 to 14}\} - 7$

2. Given : $A = \{\text{Natural numbers less than 10}\}$

$B = \{\text{Letters of the word 'PUPPET'}\}$

$C = \{\text{Squares of the first four whole numbers}\}$

$D = \{\text{Odd numbers divisible by 2}\}$

Find :-

i) $n(A) \cdot A = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$

ii) $n(B)$. $B = \{P, U, E, T\}$

iii) $n(C)$. $C = \{0, 1, 4, 9\}$

iv) $n(D)$. $D = \{ \}$ or \emptyset

3. state True / False for each of the following.
Correct the wrong statement: -

i) If $A = \{0\}$, then $n(A) = 0$ False
Correct statement - $n(A) = 1$

ii) $n(\emptyset) = 1$ False
Correct statement - $n(\emptyset) = 0$

iii) If $T = \{a, l, a, h, b, d, h\}$; then $n(T) = 5$
True

iv) If $B = \{1, 5, 51, 15, 5, 1\}$; then $n(B) = 6$
False
Correct statement - $n(B) = 4$.

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