

Ex-10E

1. Write the cardinal numbers 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)  $D = \{ \{2, 2\}, \{3, 1, 2\} \}$

2

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

4

(vi)  $F = \{ \text{Whole numbers from 8 to 14} \}$

7

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

$B = \{\text{Letters of the word PEPPEP}\}$

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

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

~~Find~~

~~(i)  $n(A)$ , (ii)  $n(B)$ , (iii)  $n(C)$ , (iv)  $n(D)$~~

Answers:

(i) 9

(ii) 4

(iii) 4

(iv) 0

Find:

(i)  $n(A)$  (ii)  $n(B)$  (iii)  $n(C)$  (iv)  $n(D)$

3- State true or false for each of the following

Correct the wrong statement

(i) If  $A = \{0\}$ , then  $n(A) = 0$ .

False;  $n(A) = 1$

ii)  $n(\emptyset) = 1$ .

False;  $n(\emptyset) = 0$

iii) If  $T = \{a, b, c, d\}$  then  $n(T) = 5$

Trace

iv) If  $B = \{1, 5, 9, 13, 17\}$

False;  $n(B) = 4$