

(iii) No

(iv) No

_____ x _____

How

290921

HOMEWORK

Chapter - Sets

Exercise 10-B - Question number 2 and 3
Exercise 10-C Question number 4, 5.

Exercise - 10-B

2. If Set $B = \{4, 6, 8, 10, 12, 14\}$,
State which of the following statements are

Correct and which are wrong:

(i) $5 \in B = \text{Wrong}$

(ii) $12 \in B = \text{Correct}$

(iii) $14 \in B = \text{Correct}$

(iv) $9 \in B = \text{Wrong}$

(v) B is the set of even numbers between 2 and 16. = Correct

(vi) 4, 6 and 10 are the members of the set B . = Correct

(i) Correct statement = $5 \notin B$

(iv) $A \notin B$

3. State whether True or False:

(i) False

(ii) True

(iii) False

(iv) True

(v) ~~True~~ ~~False~~ True

(vi) True

(vii) True

Exercise - 10 - C

4. Write each of the following sets in Roster (tabular) Form and also set-Builder Form:

(i) Roster Form = $\{1, 2, 3, 4, 6, 8, 12, 24\}$

Set-builder Form = $\{x \mid x \text{ is a set of natural number that can divide 24 completely}\}$

(ii) Roster Form = $\{21, 23, 25, 27, 29, 31, 33, 35\}$

Set-builder Form = $\{x \mid x \text{ is set of odd numbers between 20 and 35}\}$

~~(iii) Set-builder Form =~~

(iii) Roster Form = $\{c, a, l, u, t\}$

Set-builder Form = $\{x \mid x \text{ is the set of letters used in the word Calcutta}\}$

(iv) $R = \{ \text{January, February, March, April, May} \}$

$S = \{ x \mid x \text{ is the set of the names of the first five months of the year} \}$

(v) $R = \{ 16, 25, 36, 49, 64, 81 \}$

$S = \{ x \mid x \text{ is a perfect square two-digit number} \}$

S. (i) $\{ 5, 15, 25, 35 \}$

(ii) $\{ 18, 24, 30 \}$

(iii) $\{ \text{Friday, Saturday, Sunday} \}$

(iv) $\{ \text{September, October, November, December} \}$

————— x —————