

0.60
6.721

Ex: - 10 (B)

$2 \in A$

i) Set $A = \{2, 3, 4, 5, 6\}$

Here, element 2 belongs to set A.

Hence, the given statement is true.

$5, 6 \in A$

ii) Set $A = \{2, 3, 4, 5, 6\}$

Here, element 5 and 6 belong to set A.

Hence the given statement is true.

iii) $3, 4, 7 \in A$

Set $A = \{2, 3, 4, 5, 6\}$

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Here, element 7 does not belong to set A
Hence, the given statement is false.

$$2, 8 \in A$$

$$\text{Set } A = \{2, 3, 4, 5, 6\}$$

Here, element 8 does not belong to set A
Hence, the given statement is false.

$$5 \in B = \{4, 6, 8, 10, 12, 14\}$$

Here, element 5 does not belong to set B
Hence, the given statement is false.

$$12 \in B = \{4, 6, 8, 10, 12, 14\}$$

Here, element 12 belongs to set B
Hence, the given statement is true.

$$14 \in B = \{4, 6, 8, 10, 12, 14\}$$

Here, element 14 belongs to set B
Hence, the given statement is true.

$$9 \in B = \{4, 6, 8, 10, 12, 14\}$$

Here, B is a set of even numbers between 2 and 16. Hence the given statement is true.

$$9 \notin B = \{4, 6, 8, 10, 12, 14\}$$

Here, element 9 does not belong to set B.
Hence, the given statement is false.

$$B \text{ is a set of even numbers between } 2 \text{ and } 16 = \{4, 6, 8, 10, 12, 14\}$$

Here, B is a set of even numbers between 2 and 16.

Hence, the given statement is true.

vi) ~~4, 6~~ and Set B = $\{4, 6, 8, 10, 12, 14\}$
Here, elements 4, 6, and 10 belong to Set B. Hence, the given statement is true.

O.H.W.
61 + 131

3. i) Sets $\{4, 9, 6, 2\}$ and $\{6, 2, 4, 9\}$ are not the same. \boxed{F}

ii) sets $\{0, 1, 3, 9, 4\}$ and $\{4, 0, 3, 9, 4\}$ are the same. \boxed{F}

iii) Sets $\{5, 4\}$ and $\{5, 4, 4, 5\}$ are not the same. \boxed{T}

iv) sets $\{8, 3\}$ and $\{3, 3, 8\}$ are the same. \boxed{F}

v) Collection of vowels used in the 'ALLAHABAD' forms a set. \boxed{T}

vi) If P is the set of letters in the word 'ROOF'; then $P = \{P, O, R\}$. \boxed{F}

vii) If M is the set of letters used in the word 'MUMBAI', then: $M = \{M, U, B, A, I\}$. \boxed{T}

O.C.W.
717 + 32

4.1) The first five counting numbers.

A \rightarrow ① 1, 2, 3, 4, 5

ii) The three types of triangles angles.

A \rightarrow Right angle, Zero angle and straight angle.

iii) The three types of triangles.

A → scalene triangle, equilateral triangle and isosceles triangle.

iv) The members of your family.

A → Sikhe Nalaka ~~Pratek~~ Nalaka and Pratek Nalaka.

v) The first six consonants of the English alphabet.

A → ~~a, b, c, d, e, f, g~~ b, c, ~~d, e, f, g~~ ^{h, i, j, k}

vi) The first ^{four} vowels of the English alphabet.

A → a, e, i, o.

vii) The names of any three Prime ministers of India.

A → Narendra Modi, A.P.J. Abdul Kalam, Indira Gandhi.

8. a) i) { 3, 8, 5, 15, 12, 7 }

A → 3, 8, 5, 15, 12 and 7.

ii) { C, M, N, O, S }

A → C, M, N, O and S

b) i) 2, 4, 8, 16, 64 and 128 | ii) 3, 5, 15, 45, 75 and 90

A → { 2, 4, 8, 16, 64, 128 } | A → { 3, 5, 15, 45, 75, 90 }

Elements of a set

$$A = \{1, 2, 3, 4, 5\}$$

A is a set, whose elements are 1, 2, 3, 4 and 5.

• \in - (is in) / \in - belongs to

$$0 \notin A$$

O.C.W
21/7/21

EX: - 10 (B)

6.i) Write the set of letters used in the word 'BHOPAL'.

$$A \rightarrow \{B, H, O, P, A, L\}$$

ii) Write the set of vowels used in the word 'Banana'.

$$A \rightarrow \{a, e, o, i, u\}$$

iii) Write the set of consonants used in 'Honk-konk'.

$$A \rightarrow \{h, n, k, o, a\}$$