

The following numbers are divisible by 2 :

(ii) 523

the follo

Hw
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Swarit Math
class - 6 Sec - B

Date _____
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Elem
Ex - 10 B

1. If set $A = \{2, 3, 4, 5, 6\}$, state which of the following statements are true and which are false.

(i) $2 \in A$ (ii) $5, 6 \in A$ (iii) $3, 4 \notin A$

(iv) $2, 8 \in A$

$5, 6 \in A$ - true

$2 \in A$ - True

2. If set $B = \{2, 4, 6, 8, 10, 12, 14\}$, state which of the following statements are correct and which are wrong.

(i) $5 \in B$ (ii) $12 \in B$ True

(iii) $14 \in B$ (iv) $9 \in B$
True

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

B is the set of even numbers between 4 and 14

(vi) 4, 6 and 10 are the numbers members of the set B . True

3. State whether true or false:

- (i) Sets $\{4, 9, 6, 2\}$ and $\{6, 2, 4, 9\}$ are not the same. True
- (ii) Sets $\{0, 1, 3, 9, 4\}$ and $\{4, 0, 3, 9\}$ are the same. not same. False
- (iii) Sets $\{5, 4\}$ and $\{5, 4, 4, 5\}$ are not same. False
- (iv) Sets $\{8, 3\}$ and $\{3, 3, 8\}$ are the same. True
- (v) Collections of vowels formed in the word 'ALLAHBAD' forms a set. True
- (vi) If P is the set of letters in the word 'ROOP', then $P = \{R, O, P\}$ True
- (vii) If M is the set of letters used in the word 'MUBAI', then $M = \{m, u, b, a, i\}$

Ans = True

4. (i) The first five counting numbers.
 $\{1, 2, 3, 4, 5\}$

(ii) The three types of angles.
 $\{equilateral, isosceles, scalene\}$

(i) The three types of angles
{ right, acute, obtuse }

(ii) The members of your family
{ father, mother, sister }

(iii) The first six consonants of the English alphabet.
{ a, b, c, d, e, f }

(iv) The names of the first four vowels of the English alphabet.
{ a, e, i, o }

(v) The names of any three Prime Ministers of India.

{ Rajiv Gandhi, Jawahar Lal Nehru, Narendra Modi }

5. (a) Write the members of each set:

(i) { 3, 8, 5, 15, 12, 7 }
The elements are 3, 8, 5, 15, 12, 7.

(ii) { c, m, n, o, s }
The elements are c, m, n, o and s.

(b) Write the sets whose elements are

(i) 2, 4, 6, 8, 16, 64 and 128
{ 2, 4, 6, 8, 16, 64, 128 }

(ii) 3, 5, 15, 45, 75 and 90.

{ 3, 5, 15, 45, 75, 90 }

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

{ b, h, o, p, a, l }

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

{ e, a }

(iii) Write the set of consonants used in the word 'HONG-KONG'.

{ h, o, n, g, k, o, n, g }