

## Homework

### Exercise 10 (A)

i) No

Reason: Some questions must be easy for some people while some may be difficult for others

ii) Yes

Reason: It <sup>can be</sup> easily found that how many

three-sided figures are there.

iii) Yes.

Reason:

iv) No

Reason: It is not mentioned that the boys should be taller than which boy or should be taller than how much height. For example, If there are three boys, A, B and C, then A can be taller than B, but C can be taller than A.

v) Yes

vi) No

Reason - Some triangles may be easy to draw for some people and may be difficult for some others.

vii) Yes.

viii) No

Reason - It is not necessary that everyone in the world likes the same fruits.

ix) No

Reason - ~~It is~~ Some students can be cleverer to some people while some may not think them as clever.

x) No

Reason - Some schools may be good for some people while

for some it may not.

xi) Yes

xii) Yes

xiii) Yes.

### Exercise 10(B)

1. ~~A set~~ If set A ..... which are false.

i)  $2 \in A$ . True

ii)  $5, 6 \in A$ . True

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

iv)  $2, 8 \in A$ . False

2. If set B ..... which are wrong

i) False, ~~5~~  $5 \notin B$

ii) True

iii) True

iv) False, ~~8~~  $9 \in B$

v) True

vi) True



### PREVIOUS KNOWLEDGE TEST

#### Exercise 10(B)

4. Write the set containing.
- iii) the three type of triangles, iv) the members of your family, v) the first six consonants of the English Alphabets, vi) the first four vowels of english alphabet
  - vii) the names of any three prime-ministers of India,
  - iii)  $\{ \text{equilateral, isosceles, scalene} \}$  is a set of three types of triangles, myself
  - iv)  $\{ \text{father, mother} \}$  is a set of members of the family.
  - v)  $\{ \text{b, c, d, f, g, h} \}$  is a set of first six english consonants
  - vi)  $\{ \text{a, e, i, o} \}$  is a set of first four vowels
  - vii)  $\{ \text{Jawaharlal Nehru, Atal Bihari Bajpayee, Narendra Modi} \}$  are the name is a set of three prime ministers of India

- 3) i) False. Sets  $\{4, 9, 16\}$  and  $\{6, 2, 4, 9\}$  are not the same
- ii) True. sets  $\{0, 1, 3, 4, 11\}$  and  $\{4, 0, 1, 3, 9\}$  are the same.
- iii) Sets  $\{5, 4\}$  and  $\{5, 4, 4, 5\}$  are not the same. False

- iv) sets  $\{8, 3\}$  and  $\{3, 8\}$  are the same. True
- v) Collection of vowels in the word 'ALLAHABAD' forms a set. True
- vi) If  $P$  is the set of letters in the word 'ROOP', then  $P = \{p, o, r\}$  True
- vii) If  $M$  is the set of letters used in the word 'Mumbai', then  $M = \{m, u, b, a, i\}$  True

Homework

Hw  
8/7/21

Exercise 8.10 (B)

- 5. a) i) The elements are 3, 8, 5, 15, 2 and 7.
- ii) The elements are c, m, n, o and s
- b) i)  $\{2, 4, 8, 16, 64, 128\}$
- ii)  $\{3, 5, 15, 45, 75, 90\}$
- 6. i) Required set =  $\{B, H, O, P, A, L\}$
- ii) Required set =  $\{B, E, N, G, A, L\} \cup \{e, a\}$
- iii) Required set =  $\{H, k, i, n, g\}$

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10. 07. 2021