

EduSahara™ Learning Center Assignment**Grade : Class X, SSC****Chapter : Sets****Name : Single Set Operations**

1. Find the cardinality of $A = \{-5, -6, -4, -2, 0\}$

(i) 6 (ii) 4 (iii) 5 (iv) 8 (v) 2

2. If $A = \{-3, -7, 2, 3, 9, 0, -2, -8\}$, then $n(A) = ?$

(i) 7 (ii) 10 (iii) 9 (iv) 8 (v) 5

3. If $A = \{-3, 3, 0, -9, 6, 2\}$ and $\mu = \{-3, 3, 0, -9, 6, 2, -7, -2, -6, 5\}$,
find $A \cup \mu$

(i) $\{6, 1, 2, -9, 3, -3\}$ (ii) $\{3, -3, 6, -9, 2, 0\}$ (iii) $\{3, 5, -8, -6, 6, 2\}$
(iv) $\{1, 0, 3, 6, -3, 2, 5, -9\}$ (v) $\{-9, 2, -3, 0, 6\}$

4. If $A = \{4, 2, 9, -8\}$ and $\mu = \{4, 2, 9, -8, 1, -4, 6\}$,
find $A \cup \emptyset$

(i) $\{3, 9, -8, 2, 1, 4\}$ (ii) $\{-8, 2, 4, 9\}$ (iii) $\{-8, 2, 9\}$
(iv) $\{-12, 4, 9, 3\}$ (v) $\{2, 7, 9, -8\}$

5. If $A = \{-5, 5, 1, 3\}$ and $\mu = \{-5, 5, 1, 3, -7, 4, 6\}$,
find $A \cup \mu$

(i) $\{4, 5, 1, -7, 7, -2, -5\}$ (ii) $\{4, 1, 6, -1, 5, 2, -7, -5, 3\}$
(iii) $\{1, 4, -5, 3, 10, 5, -7\}$ (iv) $\{1, 6, 3, 5, -5, -7\}$
(v) $\{-7, 3, 5, 1, 6, 4, -5\}$

6. If $A = \{3, -5, -6, -2\}$ and $\mu = \{3, -5, -6, -2, 8, 6, -7\}$,
find $A \cap \mu$

(i) $\{-6, 0, -5, 3\}$ (ii) $\{1, -2, 5, -5, 3, -6\}$ (iii) $\{3, -2, -6\}$
(iv) $\{-8, 6, -6, -2\}$ (v) $\{-2, 3, -6, -5\}$

7. If $A = \{5, -6, -9\}$ and $\mu = \{5, -6, -9, -3, -8\}$,
find $A \cap \emptyset$

(i) $\{\}$ (ii) $\{0\}$ (iii) $\{1\}$ (iv) $\{3, -1\}$ (v) $\{2\}$

8. If $A = \{5, -8, 2, 9, -4, 0, -9\}$ and $\mu = \{5, -8, 2, 9, -4, 0, -9, 4, -2, -3, 6\}$,
find $A \cap \mu$

(i) $\{10, -4, -8, -9, 2, 0, 5\}$ (ii) $\{0, 5, 9, -9, 2, -4, -8\}$
(iii) $\{2, -8, 5, 0, 9, 3, -1, -4, -9\}$ (iv) $\{5, 1, -4, -9, -1, 9, -8\}$

(v) $\{-9, 9, 0, -8, 5, -4\}$

9. If $\mu = \{4, -6, 8, 0, 5, -4, 2, -3, -9, -2, -7, 3\}$,
A = $\{4, -6, 8\}$ and B = $\{0, 4, 5, -4, 2, -3, -9\}$, find $n(A)$
(i) 3 (ii) 2 (iii) 4 (iv) 0 (v) 5
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10. If $\mu = \{8, 6, 0, 7, -8, -1, -2, -3, 5\}$,
A = $\{8, 6, 0\}$ and B = $\{6, 8, 7, -8\}$, find $n(B)$
(i) 2 (ii) 7 (iii) 3 (iv) 4 (v) 5
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Assignment Key

- 1) (iii)
- 2) (iv)
- 3) (ii)
- 4) (ii)
- 5) (v)
- 6) (v)
- 7) (i)
- 8) (ii)
- 9) (i)
- 10) (iv)