

EduSahara™ Learning Center Assignment**Grade : Class VII, ICSE****Chapter : Sets****Name : Single Set Problems****Licensed To : Teachers and Students for non-commercial use**

-
1. If $A = \{1, 3, 8, 6, 2, 7, -6\}$ and $\mu = \{1, 3, 8, 6, 2, 7, -6, -8, -3, -2, 4\}$,
find $A \cup \mu$

- (i) $\{6, 2, 3, 0, -6, 7, 8\}$ (ii) $\{7, 3, -6, 6, 1, 2, 8\}$
(iii) $\{6, 1, 2, 3, -1, 0, 7, 8, -6\}$ (iv) $\{1, 6, 7, 3, 8, 2\}$
(v) $\{1, 6, 9, 7, -1, 3, -6\}$
-

2. If $A = \{7, 1, -2\}$ and $\mu = \{7, 1, -2, -1, 4\}$,
find $A \cup \emptyset$

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

3. If $A = \{7, -8, -4, -1, 1, -3\}$ and $\mu = \{7, -8, -4, -1, 1, -3, 0, -7, -9, -6\}$,
find $A \cup \mu$

- (i) $\{-4, 1, 0, -1, 7, -7, -8, -6, -3\}$ (ii) $\{-1, -8, -4, -9, -6, 7, -7, 0, -3, 1\}$
(iii) $\{1, -10, 0, -14, -7, -6, -4, 7, -3, -1\}$ (iv) $\{0, -3, -8, 7, 4, -7, -4, -6, 1, -9\}$
(v) $\{7, -4, 2, -9, -1, 3, -8, 0, -3, -7, -6, 1\}$
-

4. If $A = \{-3, 2, 7, -2\}$ and $\mu = \{-3, 2, 7, -2, 4, 0, -7\}$,
find $A \cap \mu$

- (i) $\{7, 2, 3, -3\}$ (ii) $\{2, -3, 7, -2\}$ (iii) $\{4, 7, -3, 3, -2, 2\}$
(iv) $\{7, 2, -3\}$ (v) $\{7, 0, 2, -4\}$
-

5. If $A = \{2, 0, 4, 6, -5\}$ and $\mu = \{2, 0, 4, 6, -5, 8, -7, -6\}$,
find $A \cap \emptyset$

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

6. If $A = \{-2, -9, -1, 9\}$ and $\mu = \{-2, -9, -1, 9, 4, 3, 6\}$,
find $A \cap \mu$

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

7. If $A = \{-4, 5, -2, -9, -7\}$ and $\mu = \{-4, 5, -2, -9, -7, 9, -1, 7\}$,
find A'

(i) $\{-1, 9, 7\}$ (ii) $\{-1, 9\}$ (iii) $\{9, 5, -1, 7, 4\}$ (iv) $\{12, 7, 2\}$ (v) $\{6, -1, 9\}$

8. If $A = \{3, -4, 2\}$ and $\mu = \{3, -4, 2, -1, 7\}$,
find $A \cup A'$

(i) $\{7, 3, -1, 2, -4\}$ (ii) $\{7, -1, 3, 1, -2\}$ (iii) $\{-4, 2, 7, 3\}$
(iv) $\{3, -4, 2, 7, -1, 5, 0\}$ (v) $\{-4, 2, 1, 3, 7\}$

9. If $A = \{3, -2, -9, 4, -8, -1, -6\}$ and $\mu = \{3, -2, -9, 4, -8, -1, -6, 2, 1, 5, 7\}$,
find $A \cap A'$

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

10. If $A = \{3, -4, 4, -1, -6, 2\}$ and $\mu = \{3, -4, 4, -1, -6, 2, -7, -5, -3, 6\}$,
find $(A')'$

(i) $\{4, 2, -1, 3, -6\}$ (ii) $\{4, 7, 3, -6, -4, -1\}$ (iii) $\{-6, 2, 3, 4, -4, -1\}$
(iv) $\{2, 3, 0, -6, -4, 4, 1, -1\}$ (v) $\{0, 4, -4, 3, -2, -5\}$

Assignment Key

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