

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

1. Find the cardinality of $A = \{-4, -8, -2, 5, 7, -5\}$

(i) 5 (ii) 3 (iii) 7 (iv) 8 (v) 6

2. If $A = \{7, -3, -1, -9, 0, 6, 1, -4\}$, then $n(A) = ?$

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

3. If $\mu = \{-5, 0, 2, 9, 8, 4, 7, -2, -7, 3, 1, 5, -8\}$,
 $A = \{-5, 0, 2, 9, 8, 4\}$ and $B = \{4, 7, -2\}$, find $n(A)$

(i) 3 (ii) 9 (iii) 5 (iv) 6 (v) 7

4. If $\mu = \{-4, -1, 9, -5, 1, 3, -8, -3, 4, 7, -2\}$,
 $A = \{-4, -1, 9\}$ and $B = \{-1, -4, -5, 1, 3, -8\}$, find $n(B)$

(i) 4 (ii) 6 (iii) 5 (iv) 8 (v) 7

5. If $\mu = \{0, 1, -8, 2, -3, 8, -5, 7, 4, 3, -7\}$,
 $A = \{0, 1, -8, 2, -3\}$ and $B = \{-8, 8, -3\}$, find $n(A \cup B)$

(i) 7 (ii) 5 (iii) 4 (iv) 6 (v) 8

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

(i) 4 (ii) (-1) (iii) 2 (iv) 1 (v) 3

7. If $\mu = \{6, -1, 2, 4, 3, -4, -5, 8, -9, -2, -3, 7, 0, -8\}$,
 $A = \{6, -1, 2, 4, 3, -4\}$ and $B = \{-1, -5, 2, 8\}$, find $n(A - B)$

(i) 7 (ii) 1 (iii) 3 (iv) 5 (v) 4

8. If $\mu = \{-1, -4, 6, 3, 5, 4, -3, -2, 9, 8, 2, -8, 0, -5, -9\}$,
 $A = \{-1, -4, 6, 3, 5, 4\}$ and $B = \{-3, 6, -2, 4, 3\}$, find $n(B - A)$

(i) (-1) (ii) 1 (iii) 2 (iv) 3 (v) 5

- If $\mu = \{-8, -3, 5, 8, -2, -1, 0, -7, 3, -9, -4\}$,
9. $A = \{-8, -3, 5, 8\}$ and $B = \{-2, -1, -8, 0\}$, find $n((A - B) \cup (B - A))$
(i) 7 (ii) 5 (iii) 6 (iv) 8 (v) 3
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- If $\mu = \{9, -5, 8, 0, -2, -4, -3, 2, -7, 3, 6, -8, -1\}$,
10. $A = \{9, -5, 8, 0\}$ and $B = \{-5, -2, -4, 0, 9, 8\}$, find $n((A \cup B) - (A \cap B))$
(i) 5 (ii) 2 (iii) (-1) (iv) 3 (v) 1
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- If $\mu = \{-1, -4, 1, -2, 9, 0, 6, -5, 2, -7, 8, -3, -8, 4, 3\}$,
11. $A = \{-1, -4, 1, -2, 9\}$ and $B = \{0, -1, -4, 6, 1, -2, -5\}$, find $n(A')$
(i) 10 (ii) 8 (iii) 13 (iv) 9 (v) 11
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- If $\mu = \{-3, 6, -1, 9, 4, -7, -2, 0, -6\}$,
12. $A = \{-3, 6, -1\}$ and $B = \{-1, 9, 6, 4\}$, find $n(B')$
(i) 7 (ii) 4 (iii) 3 (iv) 6 (v) 5
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Assignment Key

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