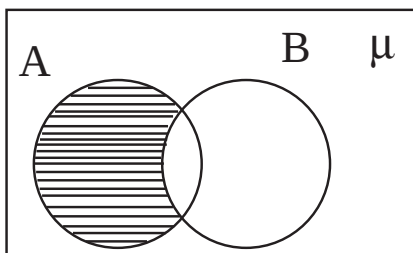


2. SETS

1. The symbol for a Universal Set is _____
2. If $A = \{a, b, c\}$, the number of subsets of A is _____
3. The set builder form of $A \cap B$ is _____
4. For every set A, $A \cap \phi =$ _____
5. Two Sets A and B are said to be disjoint if _____
6. The Shaded region in the adjacent figure is _____



7. $A = \{x: x \text{ is a circle in a give plane}\}$ is _____
8. $n(A \cup B) =$ _____
9. If A is subset of B, then $A - B =$ _____
10. If $A = \{1, 2, 3, 4, 5\}$ then the cardinal number of A is _____
11. $A = \{2, 4, 6, 8, 10\}$, $B = \{1, 2, 3, 4, 5\}$ then $B - A =$ _____
12. If $A \subset B$ then $A \cap B =$ _____
13. If $A \subset B$ then $A \cup B =$ _____
14. The shaded region in the given figure represents _____



15. The Symbol for null set is = _____
16. Roster form of $\{x: x \in \mathbb{N}, 9 \leq x \leq 16\}$ is _____
17. If $A \subset B$ and $B \subset A$ then _____
18. If $A \subset B$ and $B \subset C$ then _____
19. $A \cup \phi =$ _____
20. The Set theory was developed by _____
21. If $n(A) = 7$, $n(B) = 8$, $n(A \cap B) = 5$ then $n(A \cup B) =$ _____
22. A set is a _____ collection of objects.
23. Every set is _____ of it self.

24. The number of elements in a set is called the _____ of the set
25. $A = \{ 2, 4, 6, \dots \}$, $B = \{ 1, 3, 5, \dots \}$ then $n(A \cap B) =$ _____
26. A and B are disjoint sets then $A - B =$ _____
27. If $A \cup B = A \cap B$ then $=$ _____
28. $A = \{ x: x^2 = 4 \text{ and } 3x = 9 \}$ is a _____ set
29. $A = \{ 2, 5, 6, 8 \}$ and $B = \{ 5, 7, 9, 1 \}$ then $A \cup B =$ _____
30. If $A \subset B$, $n(A) = 3$, $n(B) = 5$, then $n(A \cap B) =$ _____
31. If $A \subset B$, $n(A) = 3$, $n(B) = 5$, then $n(A \cup B) =$ _____
32. A, B are disjoint sets then $(A - B) \cap (B - A) =$ _____
33. $A = \{ 1, 2, 3, 4 \}$ and $B = \{ 2, 4, 6, 8 \}$ then $B - A =$ _____
34. Set builder form of $A \cup B$ is $=$ _____

ANSWERS

- 1) μ ; 2) 8; 3) $\{x: x \in A \text{ and } x \in B\}$; 4) ϕ ;
- 5) $A \cap B = \phi$; 6) $A \cap B$; 7) Infinite Set;
- 8) $n(A) + n(B) - n(A \cap B)$; 9) ϕ ; 10) 5;
- 11) $\{ 1, 3, 5 \}$; 12) A; 13) B; 14) $A - B$;
- 15) ϕ ; 16) $\{ 9, 10, 11, 12, 13, 14, 15, 16 \}$; 17) $A = B$; 18) $A \subset C$;
- 19) A; 20) George Cantor ; 21) 10; 22) Well defined;
- 23) Subset; 24) cardinal number; 25) 0; 26) A; 27) $A = B$; 28) Null Set;
- 29) $\{ 1, 2, 5, 6, 7, 8, 9 \}$; 30) 3; 31) 5;
- 32) ϕ ; 33) $\{ 6, 8 \}$; 34) $\{x: x \in A \text{ or } x \in B\}$