

Sets Theory Worksheet

1. Which of the following are sets? Justify your answer.
 - a) The collection of all the months of a year beginning with letter M
 - b) The collection of difficult topics in Mathematics.
2. Let $A = \{1, 3, 5, 7, 9\}$. Insert the appropriate symbol or in blank spaces
 - a) $2 \in A$
 - b) $5 \in A$
3. Write the set $A = \{x : x \text{ is an integer, } -1 < x < 4\}$ in roster form
4. List all the elements of the set. $A = \{x : x \in \mathbb{Z}, -1/2 < x < 11/2\}$
5. Write the set $B = \{3, 9, 27, 81\}$ in set-builder form.
6. Which of the following are empty sets? Justify.
 - a) $A = \{x : x \in \mathbb{N} \text{ and } 3 < x < 4\}$
 - b) $B = \{x : x \in \mathbb{N} \text{ and } x^2 = x\}$
7. Which of the following sets are finite or infinite? Justify.
 - a) The set of all the points on the circumference of a circle.
 - b) $B = \{x : x \in \mathbb{N} \text{ and } x \text{ is an even prime number}\}$
8. Are sets $A = \{-2, 2\}$, $B = \{x : x \in \mathbb{Z}, x^2 - 4 = 0\}$ equal? Why?
9. Write $[-5, 9]$ in set-builder form
10. Write $\{x : -3 \leq x < 7\}$ as interval.
11. If $A = \{1, 3, 5\}$, how many elements has $P(A)$?
12. Write all the possible subsets of $A = \{5, 6\}$.
13. If $A = \{2, 3, 4, 5\}$, $B = \{3, 5, 6, 7\}$, then find
 - a) $A \cup B$
 - b) $A \cap B$
14. If $A = \{p, q\}$, $B = \{p, q, r\}$, is B a superset of A? Why?
15. Are sets $A = \{1, 2, 3, 4\}$, $B = \{x : x \in \mathbb{N} \text{ and } 5 \leq x \leq 7\}$ disjoint? Why?
16. If X and Y are two sets such that $n(X) = 15$, $n(Y) = 37$ and $n(X \cap Y) = 12$, find $n(X \cup Y)$.
17. Describe the set in Roster form $\{x : x \text{ is a two digit number such that the sum of its digit is 8}\}$
18. Are the following pair of sets equal? Give reasons.
 $A = \{x : x \text{ is a letter in the word FOLLOW}\}$
 $B = \{y : y \text{ is a letter in the word WOLF}\}$
19. Let $A = \{1, 2, \{3, 4\}, 5\}$ is $\{\{3, 4\}\} \in A$ is incorrect. Give reason.
20. $A = \{1, 2, \{3, 4\}, 5\}$ which is incorrect and why. (i) $\{3, 4\} \in A$ (ii) $\{3, 4\} \subset A$
21. Write the set in the set builder form. $\left\{ \frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}, \frac{6}{7} \right\}$
22. Is set $C = \{x : x - 5 = 0\}$ and $E = \{x : x \text{ is an integral positive root of the equation } x^2 - 2x - 15 = 0\}$ are equal?
23. State whether each of the following statement is true or false.
 - (i) $\{2, 3, 4, 5\}$ and $\{3, 6\}$ are disjoint sets.
 - (ii) $\{2, 6, 10\}$ and $\{3, 7, 11\}$ are disjoint sets
24. Write the following intervals in set builder form: $(-3, 0)$ and $[6, 12]$
25. If $A = \{3, 5, 7, 9, 11\}$, $B = \{7, 9, 11, 13\}$, $C = \{11, 13, 15\}$ Find $(A \cap B) \cap (B \cup C)$
26. If $P(A) = P(B)$, Show that $A = B$
27. Let A, B and C be three sets $A \cup B = A \cup C$ and $A \cap B = A \cap C$ show that $B = C$
28. Two finite sets have m and n elements. The total no. of subsets of the first set is 56 more than the total no. of subsets of second set. Find the value of m and n.
29. If $A = [-3, 5]$, $B = [0, 6]$ then find $A \cup B$
30. Write the following as interval
 - (i) $\{x : x \in \mathbb{R}, -4 < x \leq 6\}$
 - (ii) $\{x : x \in \mathbb{R}, 3 \leq x \leq 4\}$

Set Theory Multiple Choice Questions With Answers

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