MATHS

BOOKS - BEYOND PUBLICATION

SETS

Example

1. List the teeth of the Incisors

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2. List the teeth of the Canines

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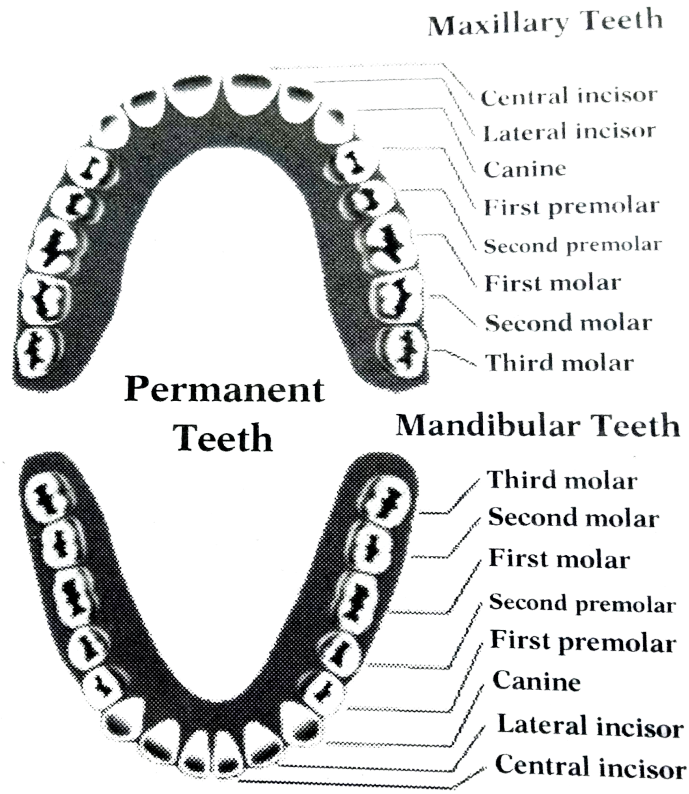
3.



List the teeth under each of the following type

Pre-molars

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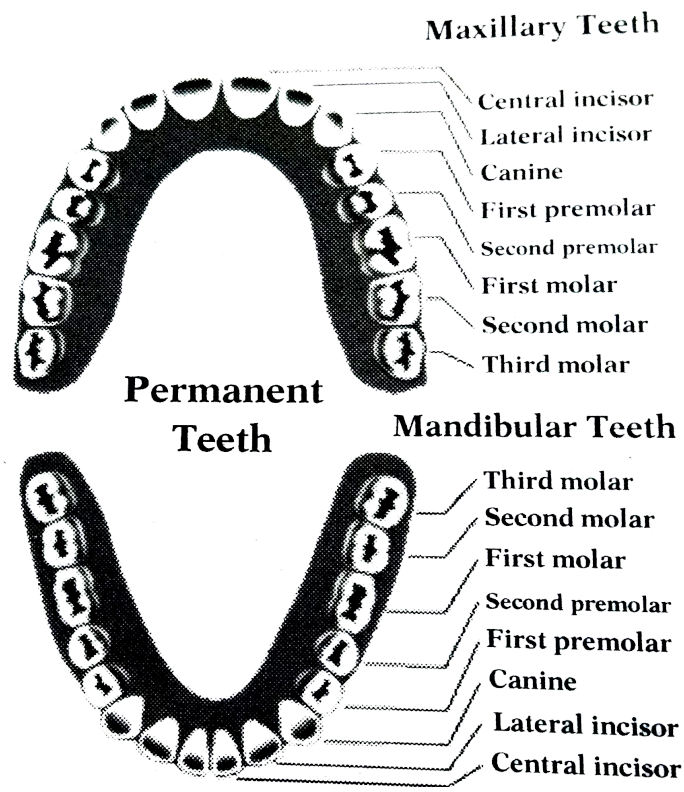
4.



List the teeth under each of the following type

molars

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5. Identify and write the common property" of the following collections.

2,4,6,8,.....

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6. Identify and write the common property" of the following collections.

2,3,5,7,11,.....

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7. Identify and write the common property" of the following collections.

1,4,9,16,....

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8. Identify and write the common property" of the following collections.

January, February, March, April.....

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9. Identify and write the common property" of the following collections.

Thumb,index finger, middle finger, ring finger, little finger

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10. Write the following sets:

Set of the first five positive integers.

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11. Write the following sets:

Set of multiple of 5 which are more than 100 and less than 125.

12. Write the following sets:

Set of first five cubic numbers.

13. Write the following sets:

Set of digits in the Ramanujan number.

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14. Some numbers are given below. Decide the number of which number sets they belong to and does not belong to and express with correct symbols.

1

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15. Some numbers are given below. Decide the numbers to which number sets they belong to and does not belong to and express with correct symbols.

0

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16. Some numbers are given below. Decide the numbers to which number sets they belong to and does not belong to and express with

correct symbols.

-4

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17. Some numbers are given below. Decide the numbers to which number sets they belong to and does not belong to and express with correct symbols.

$\frac{5}{6}$

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18. Some numbers are given below. Decide the numbers to which number sets they belong to and does not belong to and express with correct symbols.

1. $\bar{3}$

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19. Some numbers are give below. Decide the numbers to which numbers sets they belong to and does not belong to and express with

correct symbols.

$\sqrt{2}$

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20. Some numbers are given below. Decide the number of which number sets they belong to and does not belong to and express with correct symbols.

$\log 21$

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21. Some numbers are given below. Decide the numbers to which number sets they belong to and does not belong to and express with correct symbols.

0.03

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22. Some numbers are given below. Decide the numbers to which number sets they belong to and does not belong to and express with

correct symbols.

π

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23. Some numbers are given below. Decide the numbers to which number sets they belong to and does not belong to and express with correct symbols.

$\sqrt{-4}$

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24. List the elements of the following sets.

G={all the factors of 20}

25. List the elements of the following sets.

F={ the multiples of 4 between 17 and 61 which are divisible by 7}

26. List the elements of the following sets.

S={x:x is a letter in a word 'MADAM'}

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27. List the elements of the following sets.

P={x:x is a whole number between 3.5 and 6.7}

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28. Write the following sets in the roster form.

B is the set of all months in a year having 30 days.

29. Write the following sets in the roster form.

P is the set of all prime numbers smaller than 10.

30. Write the following sets in the roster form.

X is the set of the colours of the rainbow.

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31. A is the set of factors of 12. Which one of the following is not a member of A?

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32. A is the set of factors of 12. Which one of the following is not a member of A?

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33. A is the set of factors of 12. Which one of the following is not a member of A?

 Watch Video Solution

34. A is the set of factors of 12. Which one of the following is not a member of A?

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35. Observe the following collections and, prepare as many generalized statements as possible by describing their properties: 2, 4, 6, 8, ...

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36. Observe the following collections and prepare as many as generalized statements you can describing their move properties.

1,4,9,16.....

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37. Can you write set of rational numbers listing elements in it?

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38. Write some sets of your choice, involving algebraic and geometrical ideas.

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39. Which of the following are sets? Justify your answer.

The collection of all months of a year beginning with the letter "J"

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40. Which of the following are sets? Justify your answer.

The collection of ten most talented writers of India.

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41. Which of the following are sets? Justify your answer.

A team of eleven best cricket batsmen of the world.

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42. Which of the following are sets? Justify your answer.

The collection of all boys in your class.

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43. Which of the following are sets? Justify your answer.

The collection of all even integers.

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44. IF A={0,2,4,6}, B={3,5,7} and C={p,q,r} the fill the appropriate symbol , $\in$ or $\notin$ in the blanks.

0.....A

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45. IF A={0,2,4,6}, B={3,5,7} and C={p,q,r} the fill the appropriate symbol , $\in$ or $\notin$ in the

blanks.

3.....C

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46. IF A={0,2,4,6}, B={3,5,7} and C={p,q,r} the fill the appropriate symbol , $\in$ or $\notin$ in the blanks.

4.....B

Watch Video Solution

47. IF A={0,2,4,6}, B={3,5,7} and C={p,q,r} the fill the appropriate symbol , $\in$ or $\notin$ in the blanks.

8.....A

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48. IF A={0,2,4,6}, B={3,5,7} and C={p,q,r} the fill the appropriate symbol , $\in$ or $\notin$ in the blanks.

p.....C

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49. IF A={0,2,4,6}, B={3,5,7} and C={p,q,r} the fill the appropriate symbol , $\in$ or $\notin$ in the blanks.

7.....B

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50. Express the following statements using symbols.

The elements 'X' does not belong to 'A'.

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51. Express the following statements using symbols.

'd' is an element of the set'B'

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52. Express the following statements using symbols.

'I' belongs to the set of Natural numbers N.

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53. Express the following statements using symbols.

'8' does not belong to the set of prime numbers P.

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54. State which of the following statements are true.

$\{\} = \phi$

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55. State whether the following statements are true or false. Justify your answer.

S={5,6,7} implies 8 $\in$ S.

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56. State whether the following statements are true or false. Justify your answer.

-5 $\notin$ W where 'W' is the set of whole numbers.

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57. State whether the following statements are true or false. Justify your answer.

$\frac{8}{11} \in Z$

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58. Write the following sets is roster form.

B={x:x is a natural number smaller than 6}.

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59. Write the following sets is roster form.

C={x:x is a two-digit natural number such that the sum of its digits is 8}.

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60. Write the following sets in roster form:

D = {x : x is a prime number which is divisor of 60}

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61. Write the following sets in roster form:

E = The set of all letters in the word TRIGONOMETRY

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62. Write the following sets in the set-builder form.

{3,6,9,12}

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63. Write the following sets in the set-builder form.

{2,4,8,16,32}

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64. Write the following sets in the set-builder form.

{5,25,125,625}

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65. Write the following sets in the set-builder form.

{1,4,9,16,25,.....,100}

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66. Write the following sets in roster-form.

A={x:x is a natural number greater than 50 but smaller than 100}

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67. Write the following sets in roster-form.

B={x:x is an integer, $x^2 = 4$}

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68. Write the following sets in roster-form.

D={x:x is a letter in the word "LOYAL"}

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69. A={1,2,3,4}, B={2,4}, C={1,2,3,4,7}, F={}.

Fill in the blanks with $\subset$ or $\not\subset$

(i) A.....b (ii) C....A (iii) B....A

(iv) A.....C (v) B.....C (vi) $\phi \ldots B$

Watch Video Solution

70. A={1,2,3,4}, B={2,4}, C={1,2,3,4,7}, F={}.

Fill in the blanks with $\subset$ or $\not\subset$

(i) A.....b (ii) C....A (iii) B....A

(iv) A.....C (v) B.....C (vi) $\phi \ldots B$

Watch Video Solution

71. A={1,2,3,4}, B={2,4}, C={1,2,3,4,7}, F={}.

Fill in the blanks with $\subset$ or $\not\subset$

(i) A.....b (ii) C....A (iii) B....A

(iv) A.....C (v) B.....C (vi) $\phi \ldots B$

Watch Video Solution

72. A={1,2,3,4}, B={2,4}, C={1,2,3,4,7}, F={}.

Fill in the blanks with $\subset$ or $\not\subset$

(i) A.....b (ii) C....A (iii) B....A

(iv) A.....C (v) B.....C (vi) $\phi \ldots B$

Watch Video Solution

73. A={1,2,3,4}, B={2,4}, C={1,2,3,4,7}, F={}.

Fill in the blanks with $\subset$ or $\not\subset$

(i) A.....b (ii) C....A (iii) B....A

(iv) A.....C (v) B.....C (vi) $\phi \ldots B$

Watch Video Solution

74. A = {1,2,3,4}, B = {2,4}, C={1,2,3,4,7} ,F = {}

Fill in the blanks with $\subset$ or $\not\subset$.

F.....B

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75. State which of the following statements are true.

$\{\} = \phi$

Watch Video Solution

76. Which of the following statements are true

Watch Video Solution

77. State which of the following statement are true.

(i) $\{\} = \phi$ (ii) $\phi = 0$ (iii) $0 = \{0\}$

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78. Let A={1,3,7,8} and B={2,4,7,9} Find $A \cap B$.

Watch Video Solution

79. If A={6,9,11}, B={}. Find $A \cup \phi$.

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80. A={1,2,3,4,5,6,7,8,9,10}, B={2,3,5,7}. Find A ∩ B and show that $A \cap B$=B.

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81. If A = {4, 5, 6}, B = {7, 8}, then show that $A \cup B = B \cup A$.

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82. IF A={1,2,3,4,5}, B={4,5,6,7}, then find A-B and B-A. Are they equal?

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83. IF V={a,e,I,o,u) and B={a,o,k,u}, find V-B and B-V.

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84. A={set of quadrilaterals}, B={square, rectangle, trapezium, rhombus}.

State whether $A \subset B$ or $B \subset A$. Justify your answer.

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85. If A={a,b,c,d}. How many subsets does the set A have?

A. 5

B. 6

C. 16

D. 65

Answer:

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86. P is the set of factors of 5, Q is the set of factors of 25 and R is the set of factors of 125. Which one of the following is false?

A. $P \subset Q$

B. $Q \subset R$

C. $R \subset P$

D. $P \subset R$

Answer:

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87. A is the set of prime numbers smaller than 10, B is the set of odd number $<$ 10 and C is the set of even number $<$ 10. How many of the following statements are true?

(i)$A \subset B$ (ii)$B \subset A$ (iii)$A \subset C$ (iv) $C \subset A$ (v) $B \subset C$ (vi) $C \subset B$

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88. List out some sets A and B and choose their elements such that A and B are disjoint.

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89. IF A={2,3,5}, find $A \cup \phi$ and $\phi \cup A$ and compare.

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90. IF A={1,2,3,4},B={1,2,3,4,5,6,7,8}, then find $A \cup B$, $A \cap B$.What do you notice about the result?

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91. A={1,2,3,4,5,6}, B={2,4,6,8,10}. Find the intersection of A and B.

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92. Is empty set subset to every set?

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93. Is any set subset to itself?

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94. You are given two sets such that a set is not a subset of the other. If you have to prove this , how do you prove?

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95. The intersection of any two disjoint sets is a null set. Justify your answer.

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96. The sets A-B, B-A and $A \cap B$ are mutually disjoint sets. Use examples to observe if this is true.

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97. Let A={2,5,6,8} and B={5,7,9,1}. Find $A \cup B$

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98. Let A={a,e,i,o,u} and B={a,i,u}. Show that $A \cup B = A$.

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99. If A={1,2,3,4} and B={2,4,6,8}. Find $A \cup B$

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100. Find $A \cap B$ when A = {5, 6, 7, 8} and B = {7, 8, 9, 10}.

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101. IF A={1,2,3} and B={3,4,5}, then Illustrate $A \cap B$ in Venn-diagrams.

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102. Let A={1,2,3,4,5},B={4,5,6,7}. Find A-B.

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103. If A = {1, 2, 3, 4}, B = {1, 2, 3, 5, 6}, then find $A \cap B$ and $B \cap A$. Are they equal ?

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104. If A={0,2,4}, find $A \cap \phi$ and $A \cap A$. Comment.

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105. IF A={2,4,6,8,10} and B={3,6,9,12,15}, find A-B and B-A.

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106. IF A and B are two sets such that $A \subset B$ then, What is $A \cup B$?

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107. If A = $\{x : x$ is a natural number $\}$, B = $\{x : x$ is an even natural number$\}$

C = $\{x : x$ is an odd natural number$\}$ and D = $\{x : x$ is a prime number $\}$, find

$C \cap D$

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108. If A={3,6,9,12,15,18,21}, B={4,8,12,16,20}

C={2,4,6,8,12,14,16} and D={5,10,15,20}, find

(i) A-B (ii) A-C (iii) A-D (iv) B-A (v) C-A

(vi) D-A (vii) B-C (viii) B-D (ix) C-B (x) D-B

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109. If A={3,6,9,12,15,18,21}, B={4,8,12,16,20}

C={2,4,6,8,12,14,16} and D={5,10,15,20}, find

(i) A-B (ii) A-C (iii) A-D (iv) B-A (v) C-A

(vi) D-A (vii) B-C (viii) B-D (ix) C-B (x) D-B

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110. If A={3,6,9,12,15,18,21}, B={4,8,12,16,20}

C={2,4,6,8,12,14,16} and D={5,10,15,20}, find

(i) A-B (ii) A-C (iii) A-D (iv) B-A (v) C-A

(vi) D-A (vii) B-C (viii) B-D (ix) C-B (x) D-B

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111. If A={3,6,9,12,15,18,21}, B={4,8,12,16,20}

C={2,4,6,8,12,14,16} and D={5,10,15,20}, find

(i) A-B (ii) A-C (iii) A-D (iv) B-A (v) C-A

(vi) D-A (vii) B-C (viii) B-D (ix) C-B (x) D-B

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112. If A={3,6,9,12,15,18,21}, B={4,8,12,16,20}

C={2,4,6,8,12,14,16} and D={5,10,15,20}, find

(i) A-B (ii) A-C (iii) A-D (iv) B-A (v) C-A

(vi) D-A (vii) B-C (viii) B-D (ix) C-B (x) D-B

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113. If A={3,6,9,12,15,18,21}, B={4,8,12,16,20}

C={2,4,6,8,12,14,16} and D={5,10,15,20}, find

(i) A-B (ii) A-C (iii) A-D (iv) B-A (v) C-A

(vi) D-A (vii) B-C (viii) B-D (ix) C-B (x) D-B

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114. If A={3,6,9,12,15,18,21}, B={4,8,12,16,20}

C={2,4,6,8,12,14,16} and D={5,10,15,20}, find

(i) A-B (ii) A-C (iii) A-D (iv) B-A (v) C-A

(vi) D-A (vii) B-C (viii) B-D (ix) C-B (x) D-B

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115. If A={3,6,9,12,15,18,21}, B={4,8,12,16,20}

C={2,4,6,8,12,14,16} and D={5,10,15,20}, find

(i) A-B (ii) A-C (iii) A-D (iv) B-A (v) C-A

(vi) D-A (vii) B-C (viii) B-D (ix) C-B (x) D-B

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116. If A={3,6,9,12,15,18,21}, B={4,8,12,16,20}

C={2,4,6,8,12,14,16} and D={5,10,15,20}, find

(i) A-B (ii) A-C (iii) A-D (iv) B-A (v) C-A

(vi) D-A (vii) B-C (viii) B-D (ix) C-B (x) D-B

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117. If A={3,6,9,12,15,18,21}, B={4,8,12,16,20}

C={2,4,6,8,12,14,16} and D={5,10,15,20}, find

(i) A-B (ii) A-C (iii) A-D (iv) B-A (v) C-A

(vi) D-A (vii) B-C (viii) B-D (ix) C-B (x) D-B

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118. State whether each of the following statement is true or false. Justify your answers.

{2,3,4,5} and {3,6} and disjoint sets.

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119. State whether each of the following statement is true or false. Justify your answers. {a,e,I,o,u} and {a,b,c,d} are disjoint sets.

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120. State whether each of the following statement is true or false. Justify your answers. {2,6,10,14} and {3,7,11,15} are disjoint sets.

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121. State whether each of the following statement is true or false. Justify your answers. {2,6,10} and {3,7,11} are disjoint sets.

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122. IF A={p,q,r} and B={q,p,r), then check whether A=B or not.

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123. IF A={1,2,3....} and N is a set of natural numbers, then check whether A and N are equal?

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124. Consider the sets A={p,q,r,s} and B={1,2,3,4}. Are they equal?

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125. Let A be the set of prime numbers smaller than 6 and p the set of prime factors of 30. Check if A and P are equal.

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126. Show that the sets A and B are equal, where

A = { x: x is a letter in the word}

B = {x : x is a letter in the word}

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127. Consider the sets ϕ A={1,3}, B={1,5,9}, C={1,3,5,7,9}. Insert the symbol $\subset$ or $\not\subset$ between each of the following pair of sets.

ϕ. . . . . B

Watch Video Solution

128. Consider the sets ϕ A={1,3}, B={1,5,9}, C={1,3,5,7,9}. Insert the symbol $\subset$ or $\not\subset$ between each of the following pair of sets.

A.....B

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129. Consider the sets ϕ A={1,3}, B={1,5,9}, C={1,3,5,7,9}. Insert the symbol $\subset$ or $\not\subset$ between each of the following pair of sets.

A.....C

Watch Video Solution

130. Consider the sets ϕ A={1,3}, B={1,5,9}, C={1,3,5,7,9}. Insert the symbol $\subset$ or $\not\subset$

between each of the following pair of sets.

B.....C

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131. Which of the following sets are equal?

A={x : x is a letter in the word FOLLOW}, B={x : x is a letter in the word FLOW} and C={x : x is a letter in the word WOLF}

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132. Which of the following sets are equal?

A={x : x is a letter in the word FOLLOW}, B={x : x is a letter in the word FLOW} and C={x : x is a letter in the word WOLF}

Watch Video Solution

133. Which of the following sets are equal?

A={x : x is a letter in the word FOLLOW}, B={x : x is a letter in the word FLOW} and C={x : x is a letter in the word WOLF}

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134. Consider the following sets and fill up the blanks in the statement given below with = or $\neq$ so as to make the statement true.

A={1,2,3}

B={the first three natural numbers),

C={a,b,c,d}

D={d,c,a,b},

E={a,e,I,o,u},

F={ Set of words in English Alphabet}

A.....B

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135. Consider the following sets and fill up the blanks in the statement given below with = or $\neq$ so as to make the statement true.

A={1,2,3}

B={the first three natural numbers),

C={a,b,c,d}

D={d,c,a,b},

E={a,e,I,o,u},

F={ Set of words in English Alphabet}

A.....E

Watch Video Solution

136. Consider the following sets and fill up the blanks in the statement given below with = or $\neq$ so as to make the statement true.

A={1,2,3}

B={the first three natural numbers),

C={a,b,c,d}

D={d,c,a,b},

E={a,e,I,o,u},

F={ Set of words in English Alphabet}

C.....D

Watch Video Solution

137. Consider the following sets and fill up the blanks in the statement given below with = or $\neq$ so as to make the statement true.

A={1,2,3}

B={the first three natural numbers),

C={a,b,c,d}

D={d,c,a,b},

E={a,e,I,o,u},

F={ Set of words in English Alphabet}

D.....F

Watch Video Solution

138. Consider the following sets and fill up the blanks in the statement given below with = or $\neq$ so as to make the statement true.

A={1,2,3}

B={the first three natural numbers),

C={a,b,c,d}

D={d,c,a,b},

E={a,e,I,o,u},

F={ Set of words in English Alphabet}

F.....A

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139. Consider the following sets and fill up the blanks in the statement given below with = or $\neq$ so as to make the statement true.

A={1,2,3}

B={the first three natural numbers),

C={a,b,c,d}

D={d,c,a,b},

E={a,e,I,o,u},

F={ Set of words in English Alphabet}

D.....E

Watch Video Solution

140. Consider the following sets and fill up the blanks in the statement given below with = or $\neq$ so as to make the statement true.

A={1,2,3}

B={the first three natural numbers),

C={a,b,c,d}

D={d,c,a,b},

E={a,e,I,o,u},

F={ Set of words in English Alphabet}

F.....B

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141. In each of the following .state whether A=B or not.

A={a,b,c,d}, B={d,c,a,b}

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142. In each of the following .state whether A=B or not.

A={4,8,12,16},B={8,4,16,18}

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143. In the following, state whether A = B or not:

$A = \{2, 4, 6, 8, 10\}$ B = { x : x is positive even integer and $x \leq 10\}$

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144. In each of the following .state whether A=B or not.

A={x:x is a multiple of 10}

B={10,15,20,25,30.....}

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145. State the reasons for the following:

{1,2,3.....10} $\neq$ {x:x $\in$ N and $1 < x < 10$}

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146. State the reasons for the following:

{2,4,6,8,10} $\neq$ {x:x =2n+1 and x $\in$ N}

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147. State the reasons for the following:

$\{5,15,30,45\} \neq \{x:x \text{ is a multiple of } 15\}$

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148. State the reasons for the following:

$\{2,3,5,7,9\} \neq \{x:x \text{ is a prime number}\}$

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149. List all the subsets of the following sets.

$B=\{p,q\}$

Watch Video Solution

150. List all the subsets of the following sets.

$C=\{x,y,z\}$

Watch Video Solution

151. List all the subsets of the following sets.

$D=\{a,b,c,d\}$

Watch Video Solution

152. List all the subsets of the following sets.

$E=\{1,4,9,16\}$

Watch Video Solution

153. List all the subsets of the following sets.

F={10,100,1000}

Watch Video Solution

154. State which of the following sets are finite and infinite.

$\{x : x \in N \text{ and } (x-1)(x-2) = 0\}$

Watch Video Solution

155. State which of the following sets are finite and infinite.

$\{x : x \in N \text{ and } x^2 = 4\}$

Watch Video Solution

156. State which of the following sets are finite and infinite.

$\{x : x \in N \text{ and } 2x - 2 = 0\}$

Watch Video Solution

157. State which of the following sets are finite and infinite.

$\{x : x \in N$ and x is prime$\}$

Watch Video Solution

158. State which of the following sets are finite and infinite.

$\{x : x \in N$ and x is odd$\}$

Watch Video Solution

159. IF A={1,2,3,4,5},B={2,4,6,8} then find n ($A \cup B$).

Watch Video Solution

160. Which of the following are empty sets?

Justify your answer.

Set of integers which lie between 2 and 3.

Watch Video Solution

161. Which of the following are empty sets?

Justify your answer.

Set of natural numbers that are smaller than 1.

Watch Video Solution

162. Which of the following are empty sets?

Justify your answer.

Set of odd numbers that leave remainder zero,

when divided by2.

Watch Video Solution

163. State which of the following sets are finite and which are infinite. Give reasons for your answer.

$A = \{x : x \in N \text{ and } x < 100\}$

Watch Video Solution

164. State which of the following sets are finite and which are infinite. Give reasons for your answer.

$B = \{x : x \in N \text{ and } x \leq 5\}$

Watch Video Solution

165. State which of the following sets are finite and which are infinite. Give reasons for your answer.

$C = \{1^2, 2^2, 3^2, \ldots\ldots\}$

Watch Video Solution

166. State which of the following sets are finite and which are infinite. Give reasons for your

answer.

$D = \{1, 2, 3, 4\}$

Watch Video Solution

167. State which of the following sets are finite and which are infinite. Give reasons for your answer.

{x:x is a day of the week}

Watch Video Solution

168. Tick the set which is finite

A. The set of whole numbers lt 10

B. The set of prime numbers lt 10

C. The set of integers lt 10

D. The set of factors of 10

Answer:

 Watch Video Solution

169. Which of the following sets are empty sets? Justify your answer

A=$\{x : x^2 = 4 \text{ and } 3x = 9\}$

Watch Video Solution

170. Which of the following sets are empty sets? Justify your answer

The sets of all traingles in a plane having the sum of their three angles less than 180.

Watch Video Solution

171. B={x:x+5=5} is not an empty set. Why?

172. An empty set is a finite set, Is this statement true or false?Why?

173. What is the relation between n(A), n(B), $n(A \cap B)$ and $n(A \cup B)$?

Watch Video Solution

174. IF A and B are disjoint sets then how can you find $n(A \cup B)$?

Watch Video Solution

175. State which of the following sets are empty and which are not?

The set of lines passing through a given point.

Watch Video Solution

176. State which of the following sets are empty and which are not?

Set of odd natural numbers divisible by 2.

Watch Video Solution

177. State which of the following sets are empty and which are not?

{x:x is a natural number, $x < 5$ and $x > 7$}

Watch Video Solution

178. State which of the following sets are empty and which are not?

{x:x is a common point to any two parallel lines}

Watch Video Solution

179. State which of the following sets are empty and which are not?

Set of even prime numbers.

Watch Video Solution

180. Which of the following sets are finite or infinite?

The set of month in a year.

Watch Video Solution

181. Which of the following sets are finite or infinite?

{1,2,3,.....,99,100}

Watch Video Solution

182. Which of the following sets are finite or infinite?

The set of prime numbers smaller than 99.

Watch Video Solution

183. State whether each of the following sets is finite or infinite.

The set of letters in the English alphabet.

Watch Video Solution

184. State whether each of the following sets is finite or infinite.

The set of lines which are parallel to the X-axis.

Watch Video Solution

185. State whether each of the following sets is finite or infinite.

The set of numbers which are multiple of 5.

Watch Video Solution

186. State whether each of the following sets is finite or infinite.

The set of circles passing through the origin (0,0).

Watch Video Solution

187. Which of the following are sets? Justify your answer.

the collection of all months of a year beginning with letter 'M'

Watch Video Solution

188. Which of the following are sets? Justify your answer.

A team of eleven best cricket batsmen of the world.

Watch Video Solution

189. Which of the following are sets? Justify your answer.

The collection of all boys in your class.

Watch Video Solution

190. Which of the following are sets? Justify your answer.

The collection of all odd integers.

Watch Video Solution

191. If A = { 1,2,3,4} B = {5,6,7} and C = {p,q,r,s}, then fill the appropriate symbol, $\in$ or $\notin$ in the blanks.

2.....A

Watch Video Solution

192. If A = { 1,2,3,4} B = {5,6,7} and C = {p,q,r,s}, then fill the appropriate symbol, $\in$ or $\notin$ in

the blanks.

6.....C

Watch Video Solution

193. If A = { 1,2,3,4} B = {5,6,7} and C = {p,q,r,s}, then fill the appropriate symbol, $\in$ or $\notin$ in the blanks.

4.....B

Watch Video Solution

194. If A = { 1,2,3,4} B = {5,6,7} and C = {p,q,r,s}, then fill the appropriate symbol, $\in$ or $\notin$ in the blanks.

q....C

Watch Video Solution

195. If A = { 1,2,3,4} B = {5,6,7} and C = {p,q,r,s}, then fill the appropriate symbol, $\in$ or $\notin$ in the blanks.

5.....B

Watch Video Solution

196. If A = { 1,2,3,4} B = {5,6,7} and C = {p,q,r,s}, then fill the appropriate symbol, $\in$ or $\notin$ in the blanks.

8.....A

Watch Video Solution

197. Express the following statements using symbols.

The element p does not belong to 'A'

Watch Video Solution

198. Express the following statements using symbols.

'q' is an element of the set 'B'

Watch Video Solution

199. Express the following statements using symbols.

4 belongs to the set of Natural numbers N

Watch Video Solution

200. Express the following statements using symbols.

5 belongs to the set prime numbers P

Watch Video Solution

201. Write the following sets in roaster form

A = {x: x is a natural number less than 8}

Watch Video Solution

202. Write the following sets in roaster form

B = { x:x is a two digital natural number such that the sum of its digits is 5}

Watch Video Solution

203. Write the following sets in roaster form

C = {x: x is a prime number which is a divisor of 30}

Watch Video Solution

204. Write the following sets in roaster form

D = { the set of all letters in the word CRICKET}

Watch Video Solution

205. Write the following sets in the set-builder form

A = {5,10,15,20}

Watch Video Solution

206. Write the following sets in the set-builder form

$B = \{3,9,27,81\}$

 Watch Video Solution

207. Write the following sets in the set-builder form

$C = \{4,16,64,256\}$

 Watch Video Solution

208. Write the following sets in the set-builder form

D = {1,8,27,64,125,....,1000}

Watch Video Solution

209. If A = {1,2,3,4,5},B = {3,4,5, 6}, then find $A \cup B$ and $A \cap B$.

Watch Video Solution

210. If A = {4,5,6,7,8},B = {7,8,9,10,11} then find A-B and B-A.

Watch Video Solution

211. Which of the following pairs of sets are disjoint?

A = {3,4,5,6}, B = {4,6}

Watch Video Solution

212. Which of the following pairs of sets are disjoint?

A = {a,e,i,o,u}, B = {I,j,k}

Watch Video Solution

213. Which of the following pairs of sets are disjoint?

A = {5,10,15,20}, B = {8,16,24}

Watch Video Solution

214. Which of the following pairs of sets are disjoint?

A = {1,3,5,7}, B = {2,4,6,8}

Watch Video Solution

215. If A = {3,4,5,6,7}, B = {2,4,5,8} then find $n(A \cup B)$.

Watch Video Solution

216. If A and B are two sets and n(A) = 15, n(B) = 25 and $n(A \cap B) = 10$ find $n(A \cup B)$

Watch Video Solution

217. following set is equal or not?

A = {3,4,5,6}, B= {7,8,9,10}

Watch Video Solution

218. In each of the following .state whether A=B or not.

A={a,b,c,d}, B={d,c,a,b}

Watch Video Solution

219. following set is equal or not?

E = {2,4,6,8}, F = {x: x is a positive even number < 10}

Watch Video Solution

220. following set is equal or not?

G = {5,10,15,20,....},H= {x:x is a multiple of 5}

Watch Video Solution

221. State the reasons for the following.

{4,5,6,....,12} $\neq$ $\{x : x \in N$ and 4 < x < 12}

Watch Video Solution

222. State the reasons for the following:

$\{2,4,6,8,10\} \neq \{x: x = 2n+1 \text{ and } x \in N\}$

Watch Video Solution

223. State the reasons for the following.

$\{3,6,9,12\} \neq \{x: x \text{ is a multiple of } 3\}$

Watch Video Solution

224. State the reasons for the following.

{ 1,3,5,7,9} $\neq$ {x: x is an even number}

Watch Video Solution

225. Write down all the subsets of the following sets

$\{a, b\}$

Watch Video Solution

226. List all the subsets of the following

B = {p,q,r}

Watch Video Solution

227. Write down all the subsets of the following sets

$\{1, 2, 3\}$

Watch Video Solution

228. State which of the following sets are empty

Set of integers which lie between 5 and 6.

 Watch Video Solution

229. State which of the following sets are empty and which are not?

Set of odd natural numbers divisible by 2.

 Watch Video Solution

230. State which of the following sets are empty

The set of lines which are parallel to the Y-axis.

Watch Video Solution

231. State which of the following sets are empty

{x:x is a natural number, $x<6$ and $x>8$}

Watch Video Solution

232. Which of the following set is finite or infinite?

A = $\{x : x \in N \text{ and } x \leq 50\}$

Watch Video Solution

233. Which of the following set is finite or infinite?

B = $\{x : x \in N \text{ and } x \leq 10\}$

Watch Video Solution

234. Which of the following set is finite or infinite?

C = $\{1^3, 2^2, 3^3, \ldots.\}$

Watch Video Solution

235. Which of the following set is finite or infinite?

D = $\{x : x \in N$ and x is even$\}$

Watch Video Solution

236. If A = {1,2,3,4,5}, B = {4,5,6,7} then find B-A.

Watch Video Solution

237. If A = {0,1,2} and B = {2,4} then find $n(A \cup B)$

Watch Video Solution

238. If 'A' is the set of all primes below '5' and 'B' is the set of all prime factors of '30' ,then is

A-B = B-A?

Watch Video Solution

239. Represent the following through Venn-diagream.

A-B

Watch Video Solution

240. Represent the following through Venn-diagream.

B-A

Watch Video Solution

241. Represent the following through Venn-diagram.

$A \cup B$

Watch Video Solution

242. Represent the following through Venn-diagram.

$A \cap B$

Watch Video Solution

243. If A = {x: 'x' is a Natural number below 10}

B= {x: 'x' is an even number below 10}

C , {x: 'x' is an odd number below 10} then

find A-B

Watch Video Solution

244. If A = {x: 'x' is a Natural number below 10}

B= {x: 'x' is an even number below 10}

C , {x: 'x' is an odd number below 10} then

find A-C

Watch Video Solution

245. If A = {x: 'x' is a Natural number below 10}

B= {x: 'x' is an even number below 10}

C , {x: 'x' is an odd number below 10} then

find $B \cup C$

Watch Video Solution

246. Write the set A = {1, 4, 9, 16, 25, . . . }in set-builder form.

Watch Video Solution

247. If A = $\{x / x$ is a prime number and x<20 $\}$ then

B = $\{x / 2x + 1, x \in w$ and x<9$\}$ then Find

$A \cap B$

Watch Video Solution

248. If A = $\{x / x$ is a prime number and x<20 $\}$

then

B = $\{x / 2x + 1, x \in w$ and x<9$\}$ then Find

$B \cap A$

Watch Video Solution

249. If A = $\{x / x$ is a prime number and x<20 $\}$

then

B = $\{x / 2x + 1, x \in w$ and x<9} then Find

`A-B

Watch Video Solution

250. If A = $\{x / x$ is a prime number and x<20 }

then

B = $\{x / 2x + 1, x \in w$ and x<9} then Find

B-A. What do you observe?

Watch Video Solution

251. Write roster and builder form of The set of all natural numbers which divide 42°.

Watch Video Solution

252. Write A{1,2,3,4} in set builder form.

Watch Video Solution

253. Let A={x / x is an even number}

B={x / x is an odd number}

C={x / x is a prime number }

D={x / x is a multiple of 5}

Find

$A \cup B$

Watch Video Solution

254. Let A={x / x is an even number}

B={x / x is an odd number}

C={x / x is a prime number }

D={x / x is a multiple of 5}

Find

$A \cap B$

Watch Video Solution

255. Let A={x / x is an even number}

B={x / x is an odd number}

C={x / x is a prime number }

D={x / x is a multiple of 5}

Find

C-D

Watch Video Solution

256. Let A=$\{x / x$ is an even number$\}$

B=$\{x / x$ is an odd number$\}$

C=$\{x / x$ is a prime number $\}$

D=$\{x / x$ is a multiple of 5$\}$

Find

$A \cap C$.

Watch Video Solution

257. Write all the subsets of B = {p,q}

Watch Video Solution

258. Write the roster form of the set A.

A= $\{x : x = 2n + 1 \forall n \in N\}$

Watch Video Solution

259. IF A={1,2,3,4} and B={1,2,3,5,6} then find

$A \cap B$

Watch Video Solution

260. IF A={1,2,3,4} and B={1,2,3,5,6} then find

$B \cap A$

Watch Video Solution

261. IF A={1,2,3,4} and B={1,2,3,5,6} then find

A-B

Watch Video Solution

262. If A = {1,2,3,4} and B = {1,2,3,5,6} then find

B-A

Watch Video Solution

263. Write the Set builder form of A-B where

A = $\{x : x \in N$ and x<20$\}$ and B = $\{x : x \in N$

and $x \leq 5\}$

Watch Video Solution

264. IF $A = \{x / x \in N, x < 6\}$ and $B = \{x : x \in N, 3 < x < 8\}$ then show that A-B $\neq$ B-A with the help of Venn diagram.

Watch Video Solution

265. Write the set builder form of

$$A = \left\{1, \frac{1}{4}, \frac{1}{9}, \frac{1}{16}, \frac{1}{25}\right\}$$

Watch Video Solution

266. IF x is set of all factors of 24 and y is set all factors of 36 then find $X \cup Y$ and $X \cap Y$ using Venn diagrams. Comment.

Watch Video Solution

267. If A = {2,3,4,5}, B = {1,5,6} C = {6,7,8,9,10} D= {0,2,5,7}

Find

$A \cup B, B \cup C, C \cup D, A \cap B, B \cap C, C \cap D$

.

Watch Video Solution

268. If A = {1,2,3,4}, B = {5,6} C = {3,4,5,6} D= {4,6,7,8}

Find $A \cup B \cup C$, $B \cup C$, $C \cup D$, $C \cap D$,

Watch Video Solution

269. If A = {5,6,7,8,9,10}

B = {4,8,12,16,20}

C = { 5,10,15,20} D = {3,6,9,12,15} Find A-B, C-D, B-C, A-D.

Watch Video Solution

270. If A = {1,2,3,4,5},B = {2,4,6,8} C = {3,6,9,12} , D = {6,12,18,24} Find A-B, C-B, A-D, B-C.

Watch Video Solution

271. Let A = {1,2,3,4,5} B = { 4,5,6,7}

Find A-B and draw Venn-diagram of A-B

Watch Video Solution

272. Let A = {3,6,9,12}, B = {2,4,6,8}. Find A-B,B-A and Venn-diagram of A-B,B-A.

Watch Video Solution

273. If A = {1,2,3,4} and B = {2,4,6,8} Find $A \cup B$ with Venn-diagram.

Watch Video Solution

274. If A = {2,4,6,8} B = {1,5,10, 15} Find $A \cup B$ with Venn-diagram.

Watch Video Solution

Exercise

1. Which of the following are sets? Justify your answer.

The collection of all even integers.

A. The collection of natural numbers which divides 75.

B. A collection of most dangerous animlas the world.

C. The collection of teachers in your school.

D. The collection of different problems in this chapter.

Answer:

Watch Video Solution

2. If A = {1,4,5,6,8} and B={3,7,10}, insert the appropriate symble $\in$ or $\notin$ in the blank spaces.

3....A

Watch Video Solution

3. IF A={0,2,4,6}, B={3,5,7} and C={p,q,r} the fill the appropriate symbol , $\in$ or $\notin$ in the blanks.

4.....B

Watch Video Solution

4. If A = {1,4,5,6,8} and B={3,7,10}, insert the appropriate symble $\in$ or $\notin$ in the blank spaces.

2....B

Watch Video Solution

5. IF A={0,2,4,6}, B={3,5,7} and C={p,q,r} the fill the appropriate symbol , $\in$ or $\notin$ in the

blanks.

7.....B

Watch Video Solution

6. If A = {1,4,5,6,8} and B={3,7,10}, insert the appropriate symble $\in$ or $\notin$ in the blank spaces.

10....B

Watch Video Solution

7. If A = {1,4,5,6,8} and B={3,7,10}, insert the appropriate symble $\in$ or $\notin$ in the blank spaces.

1.....A

Watch Video Solution

8. Express the following statements using symbols.

The elements 'X' does not belong to 'A'.

Watch Video Solution

9. Express the following statements using symbols.

'd' is an element of the set'B'

Watch Video Solution

10. 2 is.....of set of natural numbers.

Watch Video Solution

11. Express the following statements using symblos.

9 does not belong to the set of prime numbers P.

Watch Video Solution

12. Write the following set in roster form

A = $\{x / x^2 = 16\}$

Watch Video Solution

13. Write the following set in roster form

B = {x / x is positive , x is negative}

Watch Video Solution

14. Write the following set in roster form

C = {x / x is a letter in word CALCULUS}

Watch Video Solution

15. Write the following set in roster form

D= $\{x / x$ is an integer and $-2 \leq x < 6\}$

Watch Video Solution

16. Write the following sets in the set-builder form.

A= {3,6,9,12,15,....}

Watch Video Solution

17. Write the following sets in the set-builder form.

B = {-1,1}

Watch Video Solution

18. Write the following sets in the set-builder form :

$\{2, 4, 6, \ldots\}$

Watch Video Solution

19. Write the following sets in the set-builder form

D = {1,8,27,64,125,....,1000}

Watch Video Solution

20. If A = {1,2,3,4} and B = {3,4,5,6} , then find $A \cap B$.

Watch Video Solution

21. If A = {a,b,c,d}, B = {c,d,e,f} and C= {d,e,f,g} then find $A \cap B$, $B \cap C$ and $A \cap C$,

Watch Video Solution

22. If A = {a,b} and B = {a,b,c}, then find $A \cup B$.

Watch Video Solution

23. If A = {1,3,5} and B = {1,2,3} , then find $A \cup B$ and $A \cap B$.

Watch Video Solution

24. If A = {3,5,7,9,11},B = {7,9,11,13}, then find A-B and B-A.

Watch Video Solution

25. Which of the following pairs of sets are disjoint?

A. {1,2,3,4} and {x:x is a natural number and $4 \leq x \leq 6$}

B. {a,e,i,o,u} and {c,d,e,f}

C. {x: x is an even integer} and {x:x is an odd integer}

D.

Answer:

Watch Video Solution

26. A and B are two sets. If n(A) = 17, n(B) = 23, and $n(A \cup B)$ = 38 find $n(A \cap B)$.

Watch Video Solution

27. If $n(A) = 10, n(B) = 11$ and n(AnB) = 6, n(AuB)`.

Watch Video Solution

28. Which of the following sets are equal?

A = {1,3,5,7},B= {1,2,3,4}

Watch Video Solution

29. Which of the following sets are equal?

C= {p,q,r}, D = {r,p,q}

Watch Video Solution

30. Which of the following sets are equal?

E = {1,3,5,7,9,}, F = {x: x is a positive odd number<+9}

Watch Video Solution

31. Which of the following sets are equal?

G = {x:x is a multiple of 6} ,H = {6,12,18,24,30,...}

Watch Video Solution

32. Let A {1,2,3,4,5} Which of the following statements are true?

$\{3, 4\} \subset A$

Watch Video Solution

33. Let A {1,2,{3,4},5} Which of the following statements are true?

$\{3, 4\} \in A$

Watch Video Solution

34. Let A {1,2,3,4,5} Which of the following statements are true?

$1 \in A$

Watch Video Solution

35. Let A {1,2,3,4,5} Which of the following statements are true?

$1 \subset A$

Watch Video Solution

36. Let A {1,2,3,4,5} Which of the following statements are true?

$\{1, 2, 5\} \subset A$

Watch Video Solution

37. Let A {1,2,{3,4},5} Which of the following statements are true?

$\phi \in A$

Watch Video Solution

38. Let A {1,2,{3,4},5} Which of the following statements are true?

$\{\phi\} \subset A$

Watch Video Solution

39. Let A {1,2,{3,4},5} Which of the following statements are true?

$\{\{3, 4\}\} \subset A$

Watch Video Solution

40. let A = $\{\phi, \{\phi\}, 1, \{1, \phi\}, 7\}$. Which of the following are true?

$\phi \in A$

Watch Video Solution

41. let A = $\{\phi, \{\phi\}, 1, \{1, \phi\}, 7\}$. Which of the following are true?

$\{\phi\} \in A$

Watch Video Solution

42. let A = $\{\phi, \{\phi\}, 1, \{1, \phi\}, 7\}$. Which of the following are true?

$\{1\} \in A$

Watch Video Solution

43. let A = $\{\phi, \{\phi\}, 1, \{1, \phi\}, 7\}$. Which of the following are true?

$\{7, \phi\} \subset A$

Watch Video Solution

44. let A = $\{\phi, \{\phi\}, 1, \{1, \phi\}, 7\}$. Which of the following are true?

$7 \subset A$

Watch Video Solution

45. let A = $\{\phi, \{\phi\}, 1, \{1, \phi\}, 7\}$. Which of the following are true?

$\{7, \{1\}\} \not\subset A$

Watch Video Solution

46. let A = $\{\phi, \{\phi\}, 1, \{1, \phi\}, 7\}$. Which of the following are true?

$\{\phi, \{\phi\}, \{1, \phi\}\} \subset A$

Watch Video Solution

47. let A = $\{\phi, \{\phi\}, 1, \{1, \phi\}, 7\}$. Which of the following are true?

$\{\{\phi\}\} \subset A$

Watch Video Solution

48. Let E = {a,b}, which one of the following statements are correct or incorrect?

$\{a\} \in E$

Watch Video Solution

49. Let E = {a,b}, which one of the following statements are correct or incorrect?

$\{b\} \subset E$

Watch Video Solution

50. Let E = {a,b}, which one of the following statements are correct or incorrect?

$\phi \in E$

Watch Video Solution

51. Let E = {a,b}, which one of the following statements are correct or incorrect?

$\phi \subset E$

Watch Video Solution

52. Let E = {a,b}, which one of the following statements are correct or incorrect?

$\{a, b\} \subset E$

Watch Video Solution

53. Let E = {a,b}, which one of the following statements are correct or incorrect?

$E \subset \{a, b, c\}$

Watch Video Solution

54. Write down all the subsets of the following sets

$\{1, 2, 3\}$

Watch Video Solution

55. List the subsets of the following sets:

B = {c,d}

Watch Video Solution

56. State the following set is empty or not.

Set of people on the earth who are older than 500.

Watch Video Solution

57. State the following set is empty or not.

{x: x is a natural number, x<3 and x>5}

 Watch Video Solution

58. State the following set is empty or not.

Set of all car which can run at a speed as fast as that of light.

 Watch Video Solution

59. State whether each of the following set is finite or infinite:

The set of animals living on the earth

Watch Video Solution

60. State which of the following sets are finite and infinite.

$\{x : x \in N \text{ and } (x-1)(x-2) = 0\}$

Watch Video Solution

61. Which of the following set is finite or infinte?

$\{x : x \in N \text{ and } x^2 = 25\}$

Watch Video Solution

62. State which of the following sets are finite and infinite.

$\{x : x \in N \text{ and x is prime}\}$

Watch Video Solution

63. State which of the following sets are finite and infinite.

$\{x : x \in N$ and x is odd$\}$

Watch Video Solution

64. If A = {2,3,4,5} B = {2,4,6,8} then find the value of A-B.

Watch Video Solution

65. If $n(A \cup B)=8$, $n(A)=6$, $n(B)=4$ then $n(A \cap B)=$.....

Watch Video Solution

66. Write the set builder form of $N = \{1,2,3,4,...\}$

Watch Video Solution

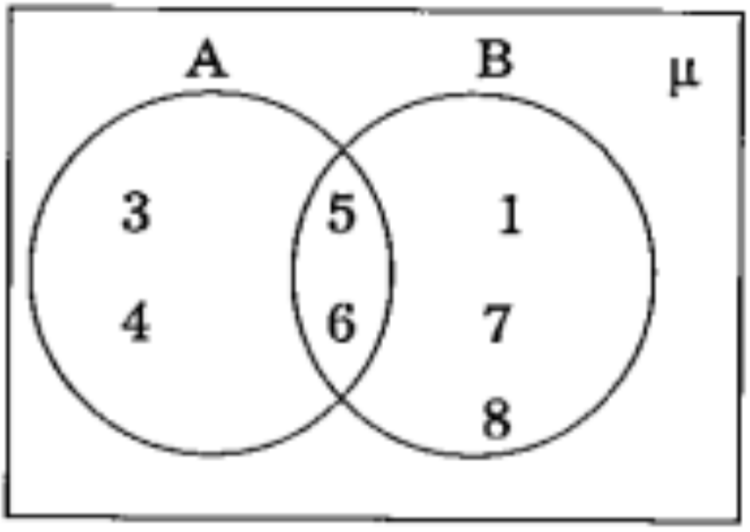
67. IF A,B are disjoint sets such that $n(A)=4$ and $n(A \cup B)=7$, then $n(B)=$.....

Watch Video Solution

68. $\{2,6,10\} \cap \{8,9,11,12,13\}$=.....

Watch Video Solution

69. from the Venn diagram find $A \cap B$, $A \cup B$.



Watch Video Solution

70. If n(A) = 4 then find the value of n(P(A)).

Watch Video Solution

71. If A = {1,2,3,4} B = {4,5,6,7} Then

$A \cap B$

Watch Video Solution

72. If A = {1,2,3,4} B = {4,5,6,7} Then

$A \cup B$

Watch Video Solution

73. If A = {1,2,3,4} B = {4,5,6,7} Then

A-B

Watch Video Solution

74. If A = {1,2,3,4} B = {4,5,6,7} Then

B-A

Watch Video Solution

75. A={2,4,6,8,10} then its rule form is.....

Watch Video Solution

76. If $A = \{1, 2, 3, 4\}, B = \{2, 4, 6, 8\}$ then

$A \Delta B =$

Watch Video Solution

77. IF the number of proper subsets of a given set is 31 then the set contains ..... elements.

Watch Video Solution

78. Write Roaster form of the set of Natural numbers less than 100.

Watch Video Solution

79. The symbol for a null set is

A. $\in$

B. $\cup$

C. ϕ

D. $\not\subset$

Answer:

Watch Video Solution

80. C = {x:x is a circle in a given plane } is

A. finite set

B. infinite set

C. universal set

D. void set

Answer:

 Watch Video Solution

81. which of the following set is infinite?

A. The set of natural numbers ≤ 100

B. The set of even natural numbers between 50 and 100.

C. The set of points on a circle.

D. The set of prime numbers between 10 and 50.

Answer:

Watch Video Solution

82. The number of elements in the set D = {x:x is a day of the week } is

A. 6

B. 4

C. 5

D. 7

Answer:

Watch Video Solution

83. The symbol of "implies" is.....

A. $\Rightarrow$

B. $\Leftrightarrow$

C. $\subset$

D. $\supset$

Answer:

Watch Video Solution

84. If A = {1,2,3} the number of subsets of A is

A. 3

B. 8

C. 9

D. 6

Answer:

 Watch Video Solution

85. Two sets A and B are said to be disjoint if

A. $A \cup B = \phi$

B. $A - B = \phi$

C. $B - A = \phi$

D. $A \cap B = \phi$

Answer:

Watch Video Solution

86. For Every set A, $A \cap \phi$=

A. ϕ

B. A

C. 0

D. 1

Answer:

Watch Video Solution

87. For every set A, Find $A \cap A$=

A. 1

B. 0

C. A

D. ϕ

Answer:

Watch Video Solution

88. If A and B are two sets, then $x \in A \cap B \Rightarrow$

A. $x \in A$ or $x \in B$

B. $x \in A$ and $x \in B$

C. $x \in A$ and $x \notin B$

D. $x \notin A$ and $x \in B$

Answer:

Watch Video Solution

89. If A and B are two sets, then $x \in A \cup B \Rightarrow$

A. $x \in A$ and $x \not\in B$

B. $x \not\in A$ and $x \in B$

C. $x \in A$ or $x \in B$

D. $x \not\in A$ and $x \not\in B$

Answer:

Watch Video Solution

90. If A and B are two sets, then $x \in A - B \Rightarrow$

A. $x \in A$ or $x \in B$

B. $x \in A$ and $x \in B$

C. $x \not\in A$ and $x \in B$

D. $x \in A$ and $x \not\in B$

Answer:

Watch Video Solution

91. If V={a,e,I,o,u} and B={a,I,k,u}. Find V-B and B-V.

A. {a,e,i,o,u}

B. {a,e,o,u}

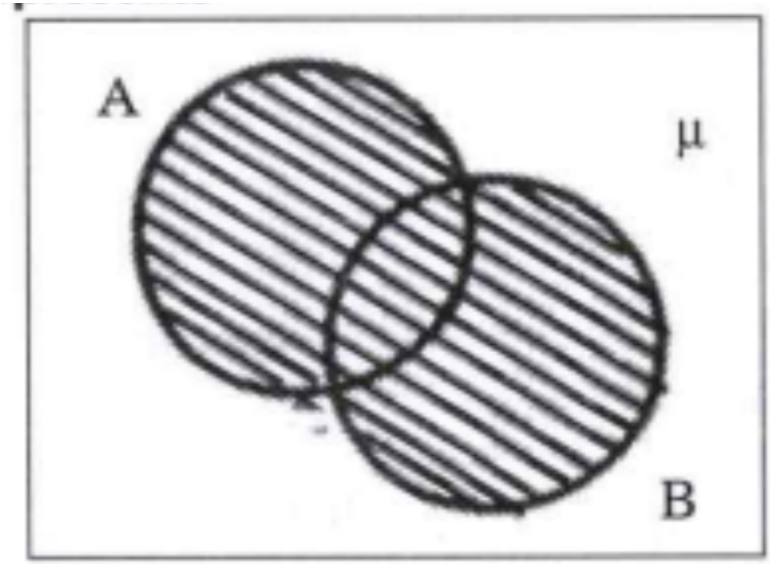
C. {e,o}

D. {a,e,o}

Answer:

Watch Video Solution

92. The shaded portion in the adjacent figure represents



A. $A \cap B$

B. $A \cup B$

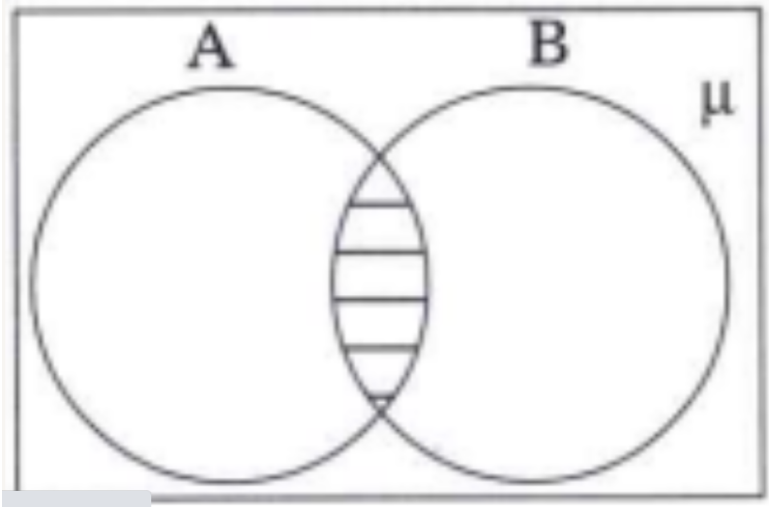
C. A-B

D. $A \subset B$

Answer:

Watch Video Solution

93. The shaded portion in the adjacent figure represents



A. $A \cap B$

B. $A \cup B$

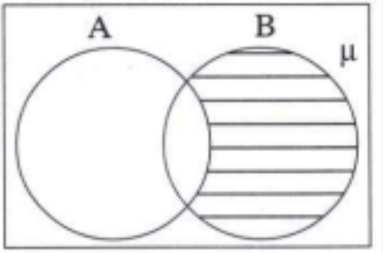
C. $A \subset B$

D. $B \subset A$

Answer:

Watch Video Solution

94. The shaded portion in the adjacent figure represents



A. $A \subset B$

B. $B \subset A$

C. B-A

D. A-B

Answer:

Watch Video Solution

95. Which of the following sets are equal?

A. E = {1,0},H = {a,b}

B. A = {0,a},C={b,0}

C. D = {4,8,12},F= {8,12,4}

D. G = {1,5,7,11}.I= {1,2,3,4}

Answer:

Watch Video Solution

96. If A = {1,3} and B = {1,5,9} then A-B =

A. {3}

B. {1}

C. {5,9}

D. {1,3,5,9}

Answer:

 Watch Video Solution

97. Which of the following sets in infinite?

A. $\{x : x \in N$ and (x-1)(x-2)= 0$\}$

B. $\{x : x \in N$ and $x^2 = 9\}$

C. $\{ x : x \in N$ and 2x-1 = 0$\}$

D. $\{x : x \in N$ and x is odd$\}$

Answer:

Watch Video Solution

98. Which of the following sets finite?

A. $\{x : x \in N$ and x is prime$\}$

B. $\{x : x \in N$ and x is an even number less than 20$\}$

C. $\{x : x^2 = 4$ and x is an odd integer$\}$

D. $\{x: x^2$ is an even prime greater than 2$\}$

Answer:

Watch Video Solution

99. Set of human being that reside on moon is .....

A. finite set

B. null set

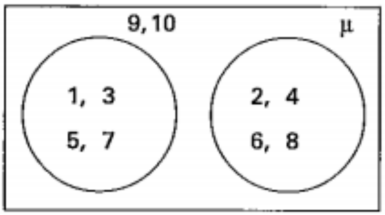
C. infinite set

D. universal set

Answer:

Watch Video Solution

100. Which of the following is true in the following venn diagram.....



A. $A \cup B = \phi$

B. $A \cup B = \mu$

C. $A \cap B = \mu$

D. $A \cap B = \phi$

Answer:

Watch Video Solution

101. Which of the following is an example for finite set.....

A. $\{x / x \in N$ and $x^2 = 9\}$

B. set of rational numbers in between 2 and 3

C. Multiples of even primes

D. Set of all primes

Answer:

Watch Video Solution

102. The number of subsets of the null set ϕ is.....

A. 0

B. 1

C. 3

D. 4

Answer:

Watch Video Solution

103. If A={a,b,c,d}. How many subsets does the set A have?

A. 5

B. 6

C. 16

D. 65

Answer:

Watch Video Solution

104. A = {1,2,3,7,8}: B = {4,5,6,7} find $A \cap B$

A. {1,2,3,4,5,6,7,8}

B. 7

C. ϕ

D. {7,8}

Answer:

Watch Video Solution

105. n(A) = 14, n(B)= 11, $n(A \cap B) = 19$ then $n(A \cup B)$=.....

A. 6

B. 16

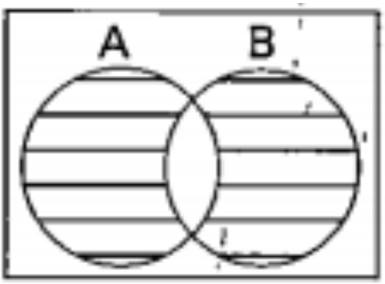
C. 22

D. 25

Answer:

Watch Video Solution

106. The shaded area in the figure shows.



A. A-B

B. B-A

C. $A\Delta B$

D. $(AuB)U(AnB)$

Answer:

Watch Video Solution

107. IF A and B are two sets such that $A \subset B$ then, What is $A \cup B$?

A. A

B. B

C. $A \cap B$

D. None

Answer:

Watch Video Solution

108. IF A and B are disjoint sets then n $(A \cup B)$=

.....

A. 1

B. ϕ

C. 0

D. { }

Answer:

Watch Video Solution

109. Match the following

Group – I	Group – II
L) $A \cup B$	i) $A \cap B$
M) $\{x : x \in A$ and $x \in B\}$	ii) $\{x : x \in A$ and $x \notin B\}$
N) $A - B$	iii) $\{x : x \in A$ or $x \in B\}$
O) If $x \in A$	iv) $A \subset B$

A.

$$L \to (iii), M \to (i), N \to (ii), O \to (iv)$$

B.

$$L \to (i), M \to (ii), N \to (iii), O \to (iv)$$

C.

$$L \to (iii), M \to (i), N \to (iv), O \to (ii)$$

D.

$$L \to (iii), M \to (ii), N \to (ii), O \to (iv)$$

Answer:

Watch Video Solution

110. $A \cap \phi \neq$ ....

A. A

B. ϕ

C. $\phi - A$

D. { }

Answer:

Watch Video Solution

111. Let A={1,2,{1},{1,2},3,4}, then which of the following is true?

A. $\{3\} \in A$

B. $\{1, 3\} \in A$

C. $\{1, 2\} \in A$

D. None

Answer:

Watch Video Solution

112. Which of the following is false?

A. $\{1\} \in A$

B. $\{1, 2\} \subseteq A$

C. $\{1, 2\} \in A$

D. None

Answer:

Watch Video Solution

113. IF A={1,2,3,4}, B={2,4,6,8}, then A-B=.....

A. {6,8}

B. {1,2}

C. {1,3}

D. None

Answer:

Watch Video Solution

114. If $n(A \cup B)=8$, $n(A)=6$, $n(B)=4$ then $n(A \cap B)=$.....

A. 2

B. 4

C. 6

D. 8

Answer:

Watch Video Solution

Watch Video Solution

115. Let A,B are two sets such that n(A)=5,n(B)=7 then the maximum number of elements is $A \cup B$ is

A. 7

B. 9

C. 12

D. None

Answer:

Watch Video Solution

116. IF A={1,2,3,4}, then the cardinality of set A is

A. 3

B. 4

C. 5

D. 6

Answer:

Watch Video Solution

117. IF A,B are disjoint sets such that n(A)=4 and $n(A \cup B)=7$, then n(B)=.....

A. 4

B. 11

C. 3

D. 20

Answer:

Watch Video Solution

118. An object of a set is called

A. Subject

B. Number

C. Alphabet

D. Element

Answer:

Watch Video Solution

119. The symbol used for 'belongs to ' is

A. $\subset$

B. $\subseteq$

C. $\in$

D. $\notin$

Answer:

Watch Video Solution

120. The set of all real numbers is

A. ϕ

B. Finite set

C. infinite set

D. None

Answer:

 Watch Video Solution

121. The number of elements in the empty set is

A. 0

B. ϕ

C. 1

D. $\in f \in ite$

Answer:

Watch Video Solution

122. If $A = \{1, 2, 2, 1, 3, 4, 3, 4\}$, then n(A) =

A. 0

B. 4

C. 8

D. 20

Answer:

Watch Video Solution

123. $A \subset B$ అయిన $A \cup B$ =

A. ϕ

B. μ

C. A

D. B

Answer:

Watch Video Solution

124. $A \cap \phi$ =....

A. ϕ

B. μ

C. A

D. A^c

Answer:

Watch Video Solution

125. The German mathematician who developed the theory of sets.....

A. Bhaskar

B. Cayley

C. George Cantor

D. None

Answer:

Watch Video Solution

126. A set is a .....of objects.

A. well defined collection

B. collection

C. elements

D. none

Answer:

Watch Video Solution

127. The objects in the set are called..... Of the set

A. elements

B. members

C. both A & B

D.

Answer:

Watch Video Solution

128. Roster form of the set of natural number less than 6 is.....

A. {4,5,6}

B. {1,2,3}

C. {2,3,4}

D. {1,2,3,4,5}

Answer:

Watch Video Solution

129. The set formed the letter of the word "SCHOOL" is.....

A. {S,O,H}

B. {H,O,L}

C. {S,C,H}

D. {S,C,H,O,L}

Answer:

Watch Video Solution

130. Roster form is also called..... Form.

A. list

B. set

C. number

D. none

Answer:

Watch Video Solution

131. Describing a set by same property common to all its elements is called.....or.....

A. set builder form

B. rule form

C. both A & B

D. none

Answer:

Watch Video Solution

132. A={2,4,6,8,10} then its rule form is.....

A. A = $\{x^2 / x \in N\}$

B. A = $\{2x / x$ is odd, $x \leq 20\}$

C. A = $\{x^3 / x \in N\}$

D. A= $\{x / x$ is an even number, $x \leq 10\}$

Answer:

Watch Video Solution

133. IF B={1,7,2,0,6} then n(B)=.....

A. 5

B. 6

C. 7

D. 9

Answer:

Watch Video Solution

134. $n(\phi)$=

A. n

B. ϕ

C. 0

D. 9

Answer:

Watch Video Solution

135. Every set is .....of itself

A. subset

B. proper set

C. power set

D. none

Answer:

 Watch Video Solution

136. IF $A \subset B$ and $A \neq B$ then 'A' is called the .....of B.

A. subset

B. proper subset

C. power set

D. none

Answer:

Watch Video Solution

137. In set Builder form, the letter x denotes any.....that belongs to the set.

A. constant

B. element

C. arbitrary element

D. none

Answer:

Watch Video Solution

138. In the rule form, the slant bar stands for.....

A. subset

B. such that

C. belongs

D. all

Answer:

Watch Video Solution

139. 2 is.....of set of natural numbers.

A. power

B. proper

C. subset

D. an element

Answer:

Watch Video Solution

140. $-3$is..... Of the set of whole numbers.

A. proper

B. power

C. element

D. not an element

Answer:

Watch Video Solution

141. 0.....to set of whole numbers.

A. does not belong

B. belong

C. subset

D. power set

Answer:

Watch Video Solution

142. A={1,2,7,10} then 7.....A.

A. $\subset$

B. $\in$

C. $\notin$

D. none

Answer:

 Watch Video Solution

143. A={1,2,7,10} then 4.....A.

A. $\supset$

B. $\in$

C. $\subset$

D. $\not\in$

Answer:

Watch Video Solution

144. "0 does not belong to the set of natural numbers" we write the statement symbolically as.....

A. $0 \not\in N$

B. $0 \in N$

C. $0 \subset N$

D. none

Answer:

Watch Video Solution

145. Set builder form of

$D = \left\{1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \frac{1}{6}\right\}$ is.....

A. $k = \left\{\frac{x}{x} = \frac{1}{n^3}, n \in N\right\}$

B. $D = \left\{\frac{x}{x} = \frac{1}{n}, n \in N, n < 7\right\}$

C. $D = \left\{ \frac{x^2}{X} = \frac{1}{k^2}, k = 1 \right\}$

D. $k = \left\{ \frac{x}{x} = \frac{1}{n^2}, n \in N \right\}$

Answer:

Watch Video Solution

146. $B = \left\{ \frac{x^2}{x} + 3 = 6 \right\}$, B=.....

A. {0,1,3}

B. (7,0}

C. {0,3}

D. {3}

Answer:

Watch Video Solution

147. A.....is a set with no elements in it.

A. infinite set

B. Finite set

C. null set

D. none

Answer:

Watch Video Solution

148. The null set is sometimes denoted as.....

A. empty set

B. void set

C. both A & B

D. none

Answer:

Watch Video Solution

149. Empty set is denoted by.....

A. $\{\phi\}$

B. {0}

C. N

D. ϕ

Answer:

Watch Video Solution

150. {0} is a set contains the element.....

A. 0

B. ϕ

C. $\{\phi\}$

D. none

Answer:

Watch Video Solution

151. A set with only are element is known as.....set.

A. Dobule

B. Singleton

C. Tri

D. none

Answer:

Watch Video Solution

152. Number of elements in a singleton set is.....

A. 0

B. 2

C. 7

D. 1

Answer:

 Watch Video Solution

153. A = $\{x$ /x+4=4`} then A=.....

A. {4}

B. {0}

C. (0,4}

D. {0,7}

Answer:

Watch Video Solution

154. B=$\{x / x \in N \text{ and } x < 1000\}$ is a .....set.

A. finite

B. infinite

C. singleton

D. empty

Answer:

Watch Video Solution

155. If in two sets A and B , every element if A is in B and every element of B is in A. then we write it as.....

A. $A \neq B$

B. AltB

C. A gtB

D. A = B

Answer:

Watch Video Solution

156. A $\neq$ B means, set A and B do not contains same elements. This is.....

Watch Video Solution

157. The number of elements in a set is called.....of the set.

A. cardinal

B. ordinal

C. 1

D. all the above

Answer:

Watch Video Solution

158. IF B={1,7,2,0,6} then n(B)=.....

A. 7

B. 0

C. 6

D. 5

Answer:

Watch Video Solution

159. IF every element of A is also an element of B then we write this as.....

A. AltB

B. BltA

C. $A \subset B$

D. $B \subset A$

Answer:

 Watch Video Solution

160. IF A={1,2,3} and B={1,2,3,4} then we say A is a.....of B.

A. subset

B. superset

C. equal

D. none

Answer:

Watch Video Solution

161. A is not a subset of B if A contains .....which is not in B.

A. equal

B. at least one element

C. 2

D. none

Answer:

Watch Video Solution

162. $\{x / x$ is a student of your school $\}$ is in .....form.

A. Roster

B. Singleton

C. at least one element

D. None

Answer:

Watch Video Solution

163. {2,4,6,8,10} is an example of.....set.

A. finite

B. infinite

C. singleton

D. two

Answer:

Watch Video Solution

164. $\{x / x$ is a natural number$\}$ is a.....set.

A. finite

B. infinite

C. singleton

D. none

Answer:

Watch Video Solution

165. $\{x / x \neq x\}$ is a .....set.

A. empty

B. infinite

C. singleton

D. none

Answer:

Watch Video Solution

166. A = {1, 2, 3}, B = {3, 4, 5} then $A \cap B$ = ...

A. 3

B. {1,2}

C. {4,5}

D. {3}

Answer:

Watch Video Solution

167. A={a,b,c},B={c,a,b} then.....

A. $A \neq B$

B. A = B

C. $A \subset B$

D. none

Answer:

Watch Video Solution

168. A={1,2,7}, B={2,1} then.....

A. $A \subset B$

B. $B \subset A$

C. $A = B$

D. none

Answer:

Watch Video Solution

169. A $\subset$ B then A-B=.....

A. $\subset$

B. B

C. A

D. ϕ

Answer:

Watch Video Solution

170. A-ϕ=.....

A. A

B. ϕ

C. μ

D. none

Answer:

Watch Video Solution

171. $A \cup A=$

A. ϕ

B. μ

C. A

D. A

Answer:

Watch Video Solution

172. μ=.....

A. A

B. μ

C. ϕ

D. none

Answer:

Watch Video Solution

173. A = {1, 2, 3}, B = {12, 0, 5} then A - B = ...

A. B

B. A

C. {5}

D. none

Answer:

 Watch Video Solution

174. $A \cup \phi$ = ...

A. A

B. B

C. ϕ

D. μ

Answer:

Watch Video Solution

175. ϕ = ...

A. B

B. A

C. μ

D. 0

Answer:

Watch Video Solution

176. $\{2, 6, 10\} \cap \{8, 9, 11, 12, 13\} =$ .....

A. $\{2\}$

B. $\{1,2\}$

C. $\{13,1\}$

D. ϕ

Answer:

Watch Video Solution

177. n(A)=4 then n(p(A))=.....

A. 12

B. 13

C. 15

D. 16

Answer:

Watch Video Solution

178. A-(A-B)=.....

A. $A \cap B$

B. ϕ

C. $A \cup B$

D. B

Answer:

Watch Video Solution

179. $(A')'$ =.....

A. A'

B. A

C. ϕ

D. none

Answer:

Watch Video Solution

180. IF A $\subset$ B, then A-B=.....

A. μ

B. B

C. A

D. ϕ

Answer:

Watch Video Solution

181. IF $A \subset B$ then $A \cup (B-A)$=.....

A. B

B. A

C. ϕ

D. none

Answer:

Watch Video Solution

182. W-{0}=.....

A. R

B. N

C. Z

D. Q

Answer:

 Watch Video Solution

183. $A \subset B$ అయి $B \subset C$ అయిన

A. B = C

B. A= B

C. $C \subset A$

D. $A \subset C$

Answer:

Watch Video Solution

184. Cardinal number of null set is.....

A. 4

B. ϕ

C. 0

D. none

Answer:

Watch Video Solution

185. A'-B'=.....

A. A-B'

B. A'-B

C. B-A

D. A-B

Answer:

Watch Video Solution

186. IF A={1,2,3}, B={3,4,5} then A Δ B=.....

A. {0}

B. {1,2}

C. {7}

D. none

Answer:

Watch Video Solution

187. A=ϕ, B=ϕ then A $\cup$ B=.....

A. μ

B. ϕ

C. can't be determined

D. none

Answer:

 Watch Video Solution

188. $A \cap B = \phi$ then $n(A \cap B)$ = ...

A. 7

B. 9

C. 3

D. none

Answer:

Watch Video Solution

189. $A \cup B = A \cap B$ then .....

A. A = B

B. $A! = B$

C. $A \subset B$

D. $B \subset C$

Answer:

Watch Video Solution

190. $\mu = \phi$ is called ....law.

A. Identity

B. Associative

C. Inverse

D. Complementary

Answer:

Watch Video Solution

191. A'=B then $A \cup B$= .....

A. A

B. μ

C. ϕ

D. none

Answer:

Watch Video Solution

192. $\phi\Delta\phi$=.....

A. μ

B. ϕ

C. {0}

D. none

Answer:

Watch Video Solution

193. $A \cup B = B \cup A$ is called.....law.

A. idempotent

B. inverse

C. complete

D. identity

Answer:

Watch Video Solution

194. A $\cup$ B=B if.....

A. $A \supset B$

B. $A \subset B$

C. A=B

D. none

Answer:

Watch Video Solution

195. $A=\phi, B=\phi$, then $A \cap B=$.....

A. {6,1}

B. {0}

C. μ

D. ϕ

Answer:

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196. n(A)=10,n(B)=4,n(A ∩ B)=2 then n($A \cup B$)=

A. 11

B. 16

C. 10

D. 12

Answer:

Watch Video Solution

197. $(A \cup B)'$=.....

A. $A' \cap B'$

B. $A' \cup B$

C. $A' \cap B$

D. $A \cap B$

Answer:

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198. $(A - B) \cup (A - C)$=.....

A. $(A - B) \cup C$

B. $(A - B) \cap C$

C. (A-B)-C

D. none

Answer:

Watch Video Solution

199. n(A)=3 then number of proper subsets of A is.....

A. 10

B. 9

C. 7

D. 8

Answer:

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200. A $\cap$ B=ϕ then B $\cap$ A= .....

A. μ

B. A

C. ϕ

D. B

Answer:

Watch Video Solution

201. $A \cup (B \cap C)$=.....

A. $(A \cup B) \cap (A \cup C)$

B. $(A \cap C) \cup (A \cap C)$

C. $(A \cup B) \cap C$

D. none

Answer:

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202. A={all primes less than 20}

B={ all whole numbers less than 10} then

$A \cap B$=.....

A. {2,3,5,7,10}

B. {2,8,9}

C. {2,3,5,7}

D. {2,4,6}

Answer:

Watch Video Solution

203. $n(A \cup B)=51$, $n(A)=20$, $n(A \cap B)=13$, then $n(B)=$.....

A. 80

B. 44

C. 40

D. 39

Answer:

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204. The identity element under union of sets of .....

A. μ

B. {0}

C. ϕ

D. none

Answer:

Watch Video Solution

205. $\mu \cup \phi$= .....

A. ϕ

B. {0}

C. $\{\phi\}$

D. μ

Answer:

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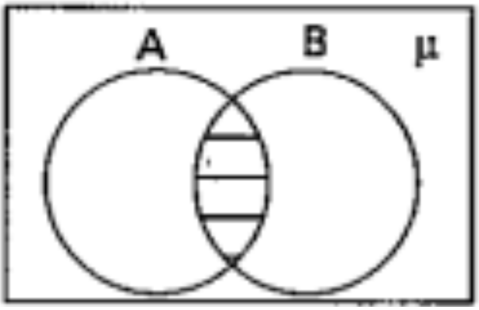
206. 

This Venn-diagram represents.....

A. $A \cap B$

B. A-B

C. $A \cup B$

D. $A \Delta B$

Answer:

Watch Video Solution

207. $N \cap W$=.....

A. Q

B. W

C. N

D. {0}

Answer:

Watch Video Solution

208. IF A and B are disjoint sets then n (A ∪ B)= .....

A. n(A)-n(B)

B. n(A)+n(B)

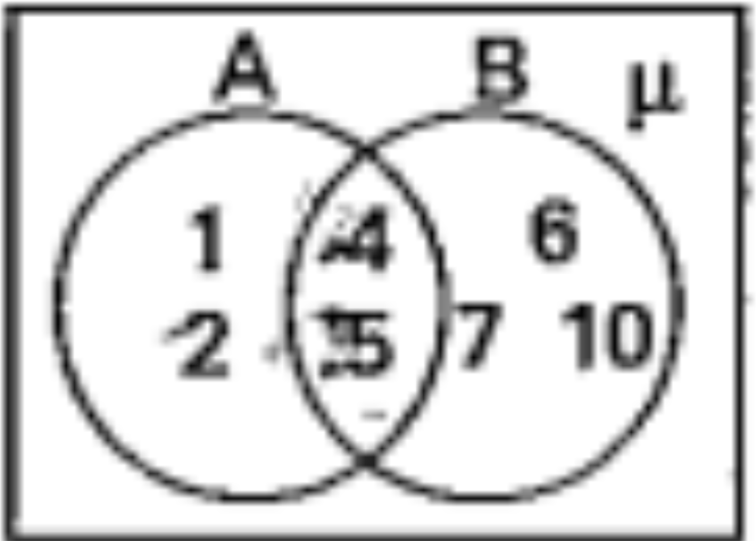
C. $\frac{n(A)}{n(B)}$

D. none

Answer:

 Watch Video Solution

209. From the Venn diagram $A \cup B$=.....



A. {1,2,3}

B. {1,2,4,5}

C. {6,7,10}

D. none

Answer:

Watch Video Solution

210. Identity element under intersection of sets is.....

A. {0}

B. μ

C. ϕ

D. none

Answer:

Watch Video Solution

211. Which of the following is true?

A. $A - B \neq B - A$

B. $A \cup \phi = A'$

C. $\mu' = \mu$

D. all

Answer:

Watch Video Solution

212. A is the set of factors of 12. Which are of the following is not a member of A?

A. 9

B. 10

C. 12

D. 5

Answer:

Watch Video Solution

Watch Video Solution

213. IF the number of proper subsets of a given set is 31 then the set contains ..... elements.

A. 7

B. 6

C. 5

D. 10

Answer:

Watch Video Solution

214. Write in the form of set?

The collection of all months of a year beginning with 'A'.

Watch Video Solution

215. Which of the following are sets?

The collection of teachers in a school .

Watch Video Solution

216. Which of the following are sets?

The collection of first five square numbers.

Watch Video Solution

217. Which of the following are sets?

The collection of talented boys in a class.

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218. Write the following sets in the set-builder form.

{3,6,9,12}

219. Write the following sets in the Set-Builder form.

B = {2,4,8,16}

220. Write the following sets in the Set-Builder form.

C = { 1,2,3,4,5,6,7}

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221. Write the following sets in the Set-Builder form.

D = {Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday}

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222. If A = {1,2,3,4,5,6} ,B = {5,6,7,8,9} then find A-B and B-A.

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223. If n(A)= 35 , n(B) = 20 and $n(A \cup B)$= 51 find $n(A \cap B)$

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224. Which of the following sets is finite or infinite.

A = $\{x : x \in N$ and x>10$\}$

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225. Which of the following sets is finite or infinite.

B = $\{x : x \in N$ and $x \leq 8\}$

Watch Video Solution

226. Which of the following sets is finite or infinite.

C = $\left\{1^4, 2^4, 3^4, 4^4, \ldots.\right\}$

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227. Which of the following sets is finite or infinite.

D = { x : x is a number multiples of 4 and ≤ 20 }

Watch Video Solution

228. If $A \cup B = A \cup C$ and $A \cap B = A \cap C$, then

A. $B \subseteq C$

B. A = B = C

C. B = C

D. $B \subseteq C \subseteq A$

Answer:

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229. The set formed the letter of the word "SCHOOL" is.....

A. {S,O,H}

B. {H,O,L}

C. {S,C,H}

D. {S,C,H,O,L}

Answer:

Watch Video Solution

230. Roster form is also called..... Form.

A. list

B. set

C. number

D. none

Answer:

 Watch Video Solution

231. K = $\{x / x$ is a prime number less than 13$\}$

list from of K is.....

A. {5,7,11}

B. {2,3,5,7,11}

C. {1,3,5}

D. None

Answer:

 Watch Video Solution

232. IF B={1,7,2,0,6} then n(B)=.....

A. 5

B. 6

C. 7

D. 9

Answer:

Watch Video Solution

233. Roster form of the set of multiples of 5 which lie between 25 and 50 is.....

A. {60,70,80}

B. {20,30,45}

C. {30,35,40,45}

D. NOne

Answer:

Watch Video Solution

234. -4 is.....of the set of natural numbers.

A. does not belong

B. belong

C. power

D. none

Answer:

Watch Video Solution

235. Collection of five scholars in your city is.....

A. a set

B. not a set

C. can't be determined

D. none

Answer:

 Watch Video Solution

236. A={1,2,4}, B={3,5,6} then.....

A. $A \cap B = \phi$

B. $A \cup B = \phi$

C. $A \cap B = \{3\}$

D. none

Answer:

Watch Video Solution

237. A $\subset$ B then A-B=.....

A. $\subset$

B. B

C. A

D. ϕ

Answer:

Watch Video Solution

238. A Δ B=.....

A. $(A-B)\cup(B-A)$

B. $(A \cap B) - (B \cap A)$

C. both A & B

D. A-B

Answer:

Watch Video Solution

239. A $\cup$ B = B $\cup$ A is called.....law.

A. inverse

B. commutative

C. identity

D. none

Answer:

Watch Video Solution

240. $A \cap B = \phi$ then $B \cap A'$=.....

A. μ

B. A

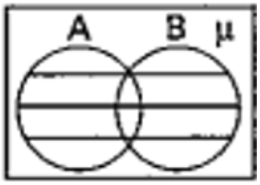
C. ϕ

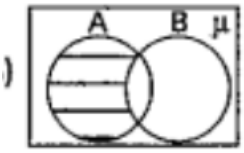
D. B

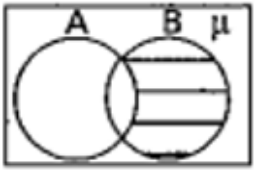
Answer:

Watch Video Solution

241. Which of the following represents A-B?

A. 

B. 

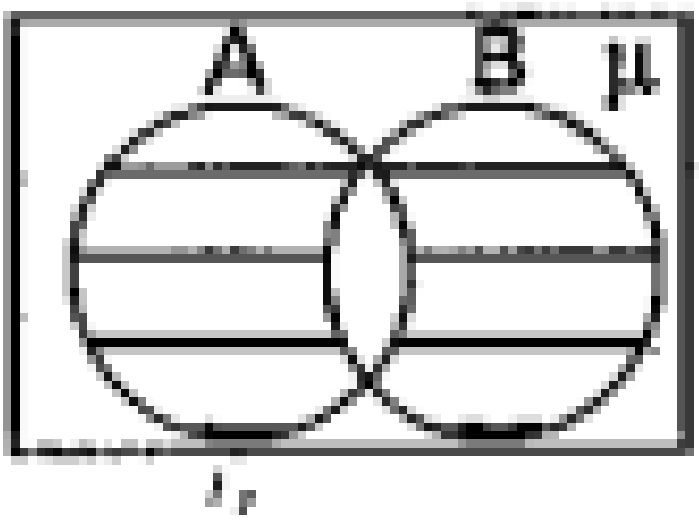
C. 

D. all

Answer:

Watch Video Solution

242. The given Venn-diagram represents.....



A. $A \Delta B$

B. A-B

C. B-A

D. all

Answer:

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243. The intersection of set of rational number and set of irrational numbers is .....

A. real numbers

B. natural numbers

C. whole numbers

D. integers

Answer:

Watch Video Solution

244. A = {0} B = {1,2,3,4,5} C ={1,5,6,7} then find the A-C,C-B,$A \cap B$, $A \cup (B \cap C)$

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245. If P = {x / x is a odd number less than 14}

Then list of P.

Watch Video Solution

246. If Z = $\{x / x$ is a months of year$\}$ Then list of Z.

Watch Video Solution

247. If A = {1,2,3}, B= {4,5} Then $A \cup B$=.....

A. {1,2,3}

B. {1,2,3,4,5}

C. ϕ

D. {5,6}

Answer:

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