



Timester Challenge

Venn Diagrams and Sets



<p>ξ</p> <p>List the numbers that are in set</p> <ol style="list-style-type: none"> A B Universal Set <p style="text-align: right;">Bronze ★</p>	<p>ξ</p> <p>Write down the numbers that are in set</p> <ol style="list-style-type: none"> $A \cap B$ $A \cup B$ A' <p style="text-align: right;">Silver ★</p>	<p>ξ</p> <p>The Venn diagram gives information about the number of elements in the set A and in the set B.</p> <p>Given that $n(A) = n(B)$, find the value of x.</p>
<p>$\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12\}$ $A = \{\text{Even numbers}\}$ $B = \{\text{Square numbers}\}$ Complete the Venn Diagram</p> <p>ξ</p> <p style="text-align: right;">Bronze ★</p>	<p>$\xi = \{1, 2, 3, 4, 6, 7, 8, 9, 10, 12\}$ $A = \{\text{multiples of } 3\}$ $A \cap B = \{3, 9\}$ $A \cup B = \{1, 3, 6, 7, 9, 12\}$ Draw a Venn diagram for this information</p> <p style="text-align: right;">Silver ★</p>	<p style="text-align: right;">Gold ★</p>



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Answers



ξ

List the numbers that are in set

a) A {1,3,5,7,9}

b) B {2,3,5,7}

c) Universal Set {1,2,3,4,5,6,7,8,9,10}

Bronze ★

ξ

Write down the numbers that are in set

a) $A \cap B$ {10,20}

b) $A \cup B$ {2,5,8,10,12,15,20,24,25}

c) A' {2,7,8,9,10,12,20,21}

Silver ★

ξ

The Venn diagram gives information about the number of elements in the set A and in the set B .

$\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12\}$

$A = \{\text{Even numbers}\}$

$B = \{\text{Square numbers}\}$

Complete the Venn Diagram

ξ

Bronze ★

$\xi = \{1, 2, 3, 4, 6, 7, 8, 9, 10, 12\}$

$A = \{\text{multiples of 3}\}$

$A \cap B = \{3, 9\}$

$A \cup B = \{1, 3, 6, 7, 9, 12\}$

Draw a Venn diagram for this information

ξ

Silver ★

Given that $n(A) = n(B)$, find the value of x .

Gold ★