



Provincial Department of Education – Sabaragamuwa – Week School

Week: - 22

Subject: Mathematics

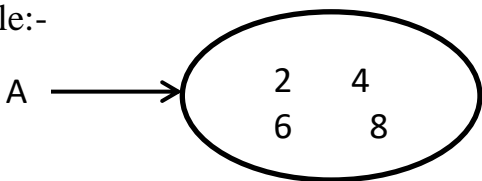
Grade -10

Translated by: WA.A.Priyadarshia
Kg/Dehi Walagamba M.V.

Grade 10- Lessons No-18


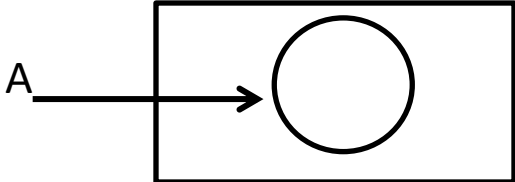
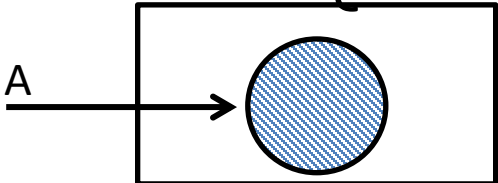
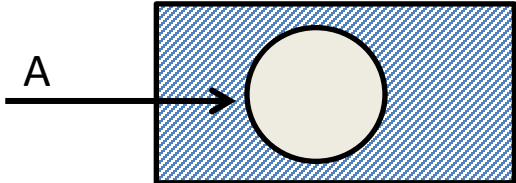
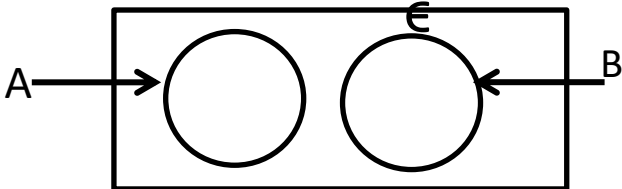
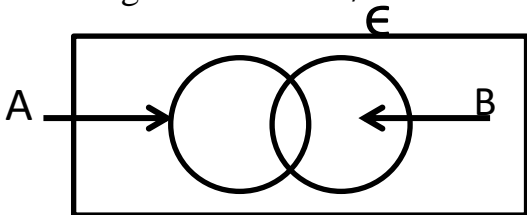
Sets

The Methods of Describing Sets:-

<p>1.The descriptive method</p> <p>Example</p> <p>$A = \{\text{Even numbers between 1 and 10}\}$</p>	<p>2.The Method of listing Elements</p> <p>Example:- $A = \{2,4,6,8\}$</p>
<p>3.The Venn Diagram method</p> <p>Example:-</p> 	<p>4. Set Builder form</p> <p>Example:-</p> <p>$A = \{X: X \text{ is a Even Number. } 1 < x < 10\}$</p>

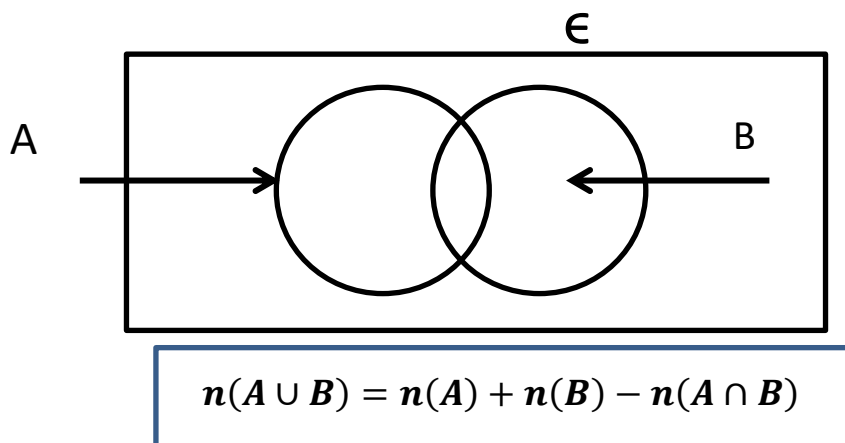
Let's solve the problems in **Exercise 18.1 on pages 177 and 178** of the Mathematics textbook

Regions in a Venn Diagram

<p>1. The universal set ϵ</p> 	<p>2. When there is one subset represented in the universal set ϵ</p> 
	
<p>3. When two subsets are represented in the Venn Diagram $A \cap B = \emptyset$</p> 	<p>3. When two subsets are represented in the Venn Diagram $A \cap B \neq \emptyset$</p> 

Let's solve the problems in **Exercise 18.2 on the page 181** of the Mathematics textbook

Relationship between the numbers of elements in two sets



When A and B Are disjoint, $n(A \cap B) = \emptyset$

In this case,

$$n(A \cup B) = n(A) + n(B)$$

Let's solve the problems in **Exercise 18.3 on the pages 184 and 185** of the Mathematics textbook.