Provincial Department of Education – Sabaragamuwa – Week School

Week: - 6th June- 12th June, 2021

Subject: Mathematics

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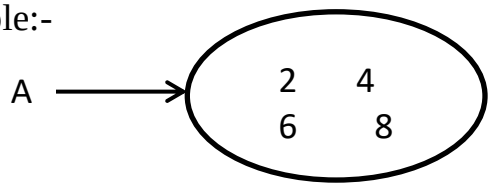
Grade -10

Grade 10- Lessons No-18

Sets

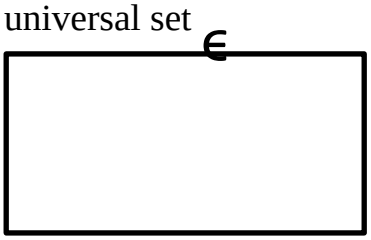
The Methods of Describing Sets:-

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

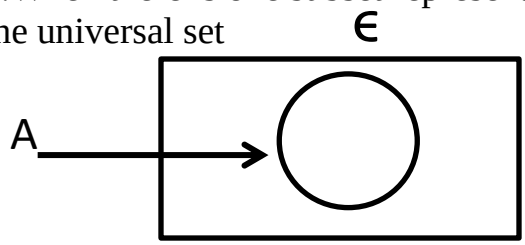
Let's solve the problems in **Exercise 18.1 on pages 177 and 178** of the Mathematics textbook

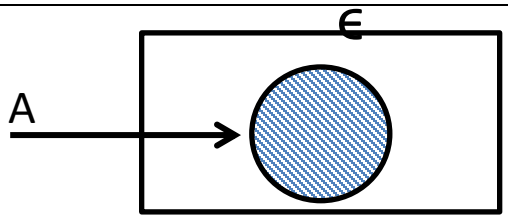
Regions in a Venn Diagram

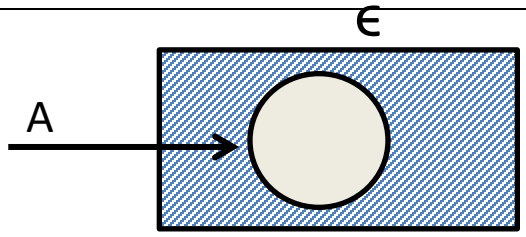
1. The universal set



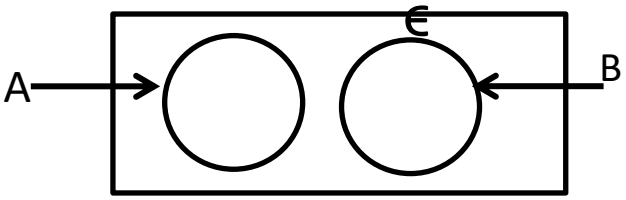
2.When there is one subset represented in the universal set







3.When two subsets are represented in the Venn Diagram $A \cap B = \emptyset$



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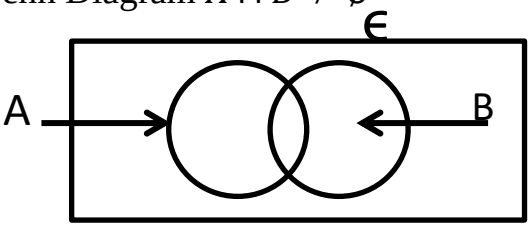
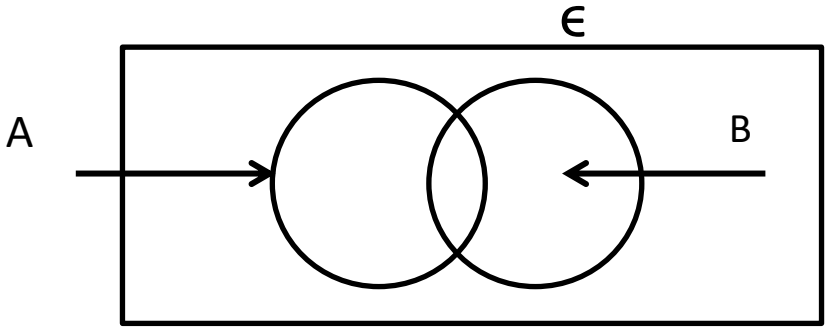


Let's solve the problems in **Exercise 18.2 on the page 181** of the Mathematics textbook

Relationship between the numbers of elements in two sets



$$\boldsymbol{n(A \cup B) = n(A) + n(B) - n(A \cap B)}$$

When A and B Are disjoint**,** $\boldsymbol{n(A \cap B) = \emptyset}$

In this case, $\boxed{\boldsymbol{n(A \cup B) = n(A) + n(B)}}$

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