



Sabaragamuwa Provincial Department of Education – Weekly School

Grade 10

Information & Communication Technology

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Competency 3 : Investigates the methods used to represent data in computer systems.

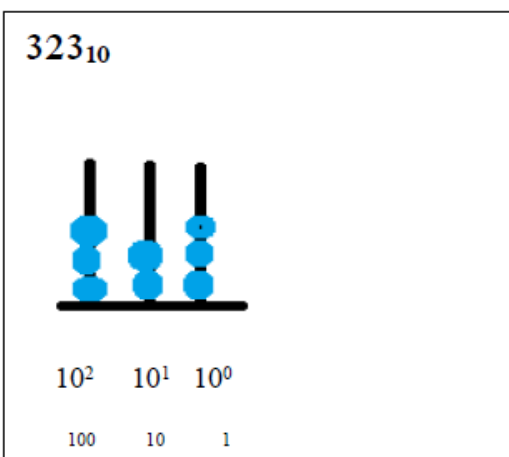
Competency Level 3.1: Uses the binary number system to represent data in computer systems.

1. Every number system is made up of units, numbers, and bases/Radix. Write down the base and the numbers used in the following number systems.

Number System	Base/ Radix	Numbers used
Binary		
Decimal		
Octal		
Hexadecimal		

2. Represent the following numbers in a counting frame according to the positional value (weight factor).

Example:



100110₂

723₈

12A₁₆

3. Specify which number system the following numbers belong to.

- 1. 101-.....
- 2. 785-.....
- 3. 251 -.....
- 4. 111011 -.....
- 5. AD2-.....