



Sabaragamuwa Provincial Department of Education – Weekly School

Grade 10

Information & Communication Technology

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1. Convert the following hexadecimal numbers into decimal numbers.

The numbers in the hexadecimal number system are 1 to 15, of which 10 to 15 are represented by a to f, respectively.

- a. $3F_{16}$
- b. 504_{16}
- c. $AF6_{16}$
- d. 504_{16}
- e. $A3C_{16}$

2. Convert the following decimal numbers into hexadecimal numbers.

- a. 819
- b. 999
- c. 1308
- d. 2511
- e. 3000

Following table can be used in conversion between hexadecimal number system and binary number system.

Hexadecimal number	0	1	2	3	4	5	6	7
Binary equivalent	0000	0001	0010	0011	0100	0101	0110	0111

8	9	A	B	C	D	E	F
1000	1001	1010	1011	1100	1101	1110	1111

3. Convert the following hexadecimal numbers into binary numbers.

a. $3E_{16}$

d. $F3_{16}$

b. 410_{16}

e. $F3F_{16}$

c. $4BF_{16}$

4. Convert the following binary numbers into hexadecimal numbers.

a. 110101110_2

b. 110011011_2

c. 1010001011_2

d. 1110001011_2

e. 110110011101_2