

Number Systems Review

Number Systems

1. What is another name for the base-10 number system?
2. To make reading and writing large numbers easier we use _____ notation.
3. Convert the following numbers from binary to decimal.
 - a. 110
 - b. 1101
 - c. 10011
 - d. 11101
4. List the numerals that make up the octal number system.
5. Convert the following numbers from octal to decimal.
 - a. 12
 - b. 23
 - c. 57
 - d. 104
6. List the numerals that make up the hexadecimal (hex) number system.
7. Convert the following numbers from hex to decimal.
 - a. D
 - b. 10
 - c. 2B
 - d. 91

Number Conversion

8. Convert the following numbers from binary to decimal.

a. 101001

b. 1001100

9. Convert the following binary numbers to octal.

a. 1011

b. 1110011

10. Convert the following binary numbers to hex.

a. 10010011

b. 101100111001

11. Convert the following decimal numbers to binary using ladder technique.

a. 35

b. 253

12. Convert the following decimal numbers to binary using positional notation technique.

a. 24

b. 138

13. Convert the following octal numbers to binary.

a. 42

b. 777

14. Convert the following hexadecimal numbers to binary.

a. F5

b. 3AE