Number Systems Quiz (Key)

Number Systems

1. Convert the following numbers from binary to decimal.

   a. 111

      7

   b. 1001

      9

   c. 11010

      26

   d. 11110

      30

2. Convert the following numbers from hex to decimal.

   a. D

      13

   b. 10

      16

   c. 2B

      00101011

   d. 91

      10010001

Number Conversion

3. Convert the following numbers from binary to decimal.

   a. 101010

      42

   b. 1011001

      89

4. Convert the following binary numbers to hex.
   a. 10110010   b. 101010001111

       B2   A8F

5. Convert the following decimal numbers to binary using ladder technique.
   a. 39   b. 252

       100111   11111100

6. Convert the following decimal numbers to binary using positional notation technique.
   a. 36   b. 130

       100100   10000010

7. Convert the following hexadecimal numbers to binary.
   a. E7   b. 5BC

       11100111   010110111100