

# Hexadecimal Questions

a) Convert the 8-bit binary number shown below into hexadecimal

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|

D8

b) Convert the 8-bit binary number 11000001 into hexadecimal.

C1

c) Convert the 8-bit binary number 01111101 into hexadecimal.

7D

d) Convert the 8-bit binary number 00000010 into hexadecimal.

02

e) Convert the hexadecimal number 52 into binary

01010010

f) Convert the hexadecimal number D9 into binary

11011001

g) Convert the hexadecimal number 61 into a decimal number

$$6 \times 16 + 1 = 97$$

h) Convert the hexadecimal number 2B into a decimal number

$$2 \times 16 + 11 = 43$$

i) Convert the decimal number 71 into hexadecimal

$$71 \div 16 = 4 \text{ rem } 7 = 47$$

( $4 \times 16 = 64$ ; then  $71 - 64$  is 7 left over)

j) Convert the decimal number 46 into hexadecimal

$$46 \div 16 = 2 \text{ rem } 14 = 2E \text{ (if A is 10, count forward on your fingers to 14 to get E)}$$