

Computer Science 125

Binary, Decimal, and Hexidecimal Numbers

1. Convert the following binary numbers to decimal.

(a) 101

(b) 101111

2. Convert the following decimal numbers to binary.

(a) 19

(b) 65

3. Convert the following hexadecimal numbers to decimal.

(a) 2C

(b) 3A9

4. Convert the following decimal numbers to hexadecimal.

(a) 12

(b) 2063

5. Convert the following hexadecimal numbers to binary. (You could convert them to decimal first, but can you think of a more efficient way?)

(a) 4C

(b) 3AF0

6. Convert the following binary numbers to hexadecimal. (What is the most efficient way you can think of to do this?)

(a) 10000

(b) 1011 1010 0111