

# COMPUTER SCIENCE 2610

## Intro to Digital Systems

### Assignment #1

Spring 2012

**Due:** Friday Jan. 27 at 9 a.m. in class (at the *beginning* of class)

**Late Penalty:** -10% per day late

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1. Convert the following numbers from the given base to the other three bases listed in the table:

Decimal	Binary	Octal	Hexadecimal
924.25			
	1101001.101		
		423.6	
			C3F7.E

2. Perform the following arithmetic in binary:

(a)  $1010010 + 1011011 =$

(b)  $11001 * 1101 =$

3. Perform the following arithmetic in octal:

(a)  $27713 + 6172 =$

(b)  $465 * 615 =$

4. Perform the following arithmetic in hexadecimal:

(a)  $E0C1 + 2BCA =$

(b)  $DF * A9 =$