## HW 4

## Number Systems - Part 1

Name:
Time spent:

1) Write each of the following numbers using the designated binary representation - you must show your work.
Decimal Value (convert to 8 bit unsigned binary)
$\square$

Decimal Value (convert to 8 bit two's-complement) -83

## Decimal Value (convert to 8 bit two's-complement)

 982) Write each of the numbers in the designated representation in base 10 - you must show your work.

Binary Value 10001001 01010001

3 - Choose the best type of variable for each of the following and select a meaningful name for each. 40 pts (int8_t, uint8_t, int16_t, uint16_t, int32_t, uint32_t)
number of students at MSOE
distance from earth to moon in miles

\# of skittles in a small bag

net number of students leaving the CC building in a 10 minute time period

age difference between two siblings


