## Quiz 1

Mon Jan 30

	You have up to 20 minutes. You may use a standard calculator, but no text book or notes.
1.	Suppose we have the digits 135, written using base six. What quantity does that represent, expressed in base ten? (4 points)
2.	Convert the base ten number 178 into base <b>twelve</b> . Recall that in base twelve we use the twelve symbols 0,1,2,3,4,5,6,7,8,9,X,E.
3.	Convert the following <b>unsigned</b> binary numbers into base ten. (6 points)  a. 11100  b. 111  c. 11010  d. 11001
4.	Convert the following base ten numbers into binary. (6 points)  a. 12 b. 17 c. 31 d. 40
5.	Convert the following signed numbers into binary using 6-bit signed two's complement. (Every answer should include all six bits.)  a1 b17 c. 27 d32