



Name:

Date:

Section:

Grade:

4.0 Integer Representation and Floating Point Representation

4.1 Instruction: Complete the table below in 8-bit signed integer representation [12 pts]:

Decimal	Sign and Magnitude	1's Complement	2's Complement
-19			
+88			

4.2 Instruction: Complete the table below [40 pts]:

4.2.1 Represent **0 . 90625**d in IEEE Single Precision and fill in the blanks:

Normalized form in Binary	=	
Value of S	=	
Value of E'	=	
Value of M	=	
IEEE Single Precision in Hexadecimal	=	

4.2.2 Find the decimal value represented by **C032 8000 0000 0000**h in double precision and fill in the blanks:

Normalized form in Binary	=	
Value of S	=	
Value of E'	=	
Value of M	=	
Decimal value represented	=	