CSCI 2150 - Binary Representations Homework

Name: _____

1. Fill in the blank cells of the table below with the correct numeric format. *For cells representing binary values, only 8-bit values are allowed!* If a value for a cell is invalid or cannot be represented in that format, write "X".

Decimal	2's complement	Signed magnitude	Unsigned binary
	binary	binary	
	01100101		
		10001101	
			01101101
130			

- 2. What is the most negative value that can be represented using 10-bit 2's complement representation?
- 3. Convert 101010101101011111110₂ to hexadecimal.
- 4. Convert the binary value 101.1001 to decimal. (Note the binary point!)