## Number base conversion and binary arithmetic

Please try to do these problems yourself. Make note of what you don't understand how to do.

(1 Point)		
11001001		

2. Convert 201 base10 to base 3 using the division method (5-digit answer ddddd) (1 Point)

21110

3. Convert 11 1110 0111 binary to hexadecimal (1 Point)

1. Convert 201 base10 to 8-bit binary

3E7

4. Convert COFE base16 to binary (answer with space between 4 digits: dddd dddd dddd dddd) (1 Point)

1100 0000 1111 1110

5. Compute 1011 0101 + 0101 1011 in regular binary (not sign-magnitude)	. Write
your answer in 8-bit binary.	
(1 Point)	

1 0001 0000

- 6. Is there overflow in the previous question?(1 Point)
  - Yes
  - O No
- 7. Compute 0010 1101 0001 0111 (regular binary) Write your answer in 8-bit binary.

(1 Point)

0001 0110

8. Convert 105 base10 to 8-bit binary representation (1 Point)

1101001

9. Convert -105 base10 to 8-bit signed magnitude representation (1 Point)

1101001

10. Convert -105 base10 to 8-bit 2's complement representation (1 Point)
0010111
11. Convert 105 base10 to excess-M representation, (use the lowest possible M) (1 Point)
1100010
12. What areas do you think you need more practice on? (1 Point)
base conversion
binary arithmetic
② 2's complement representation
excess-M representation
signed-magnitude representation

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