TEJ4M-01 Binary and Decimal Number Systems Review Worksheet

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Date: _____

Part 1: Convert the following Binary Numbers into Decimal		Part 3: Converting Decimal Numbers to Binary
		1. 15 = 1111
1.	1010 1101 = <mark>171</mark>	2. 112 = 0111 0000
2.	0111 1101 = 125	3. 223 = 1101 1111
		4. 344 = 0001 0100 1110
3.	1010 = <mark>10</mark>	5. 715 = 0010 1100 1011
4.	1001 0101 = 149	6. 102 = 0110 0110
		7. 223 = 1101 1111
5.	1111 1001 = <mark>259</mark>	8. 134 = 1000 0110
6.	1111 0011 = 253	9. Practice your binary conversions by playing the binary game at
7.	1110 1110 = 238	https://learningcontent.cisco.com/games/binary/index.html
8.	1111 = <mark>15</mark>	
Part 2: Comparing Binary Numbers (Use <, >, or =)		Part 4: Adding Binary Numbers
2.	101 < 110 011 < 100 0110 _< 1011	1. 1111 3. 1011 1101 + 100 + 100 1110
	1010 _= 01010 001 < 010	<u>3:(</u> 1 0000 1011)
		1: 0001 0011
		2. 10111 4. 11110111
		<u>+ 1111</u> <u>+ 100 1101</u>
		2. 0010 0110
		4. 1 0100 0101

Part 5: Subtracting Binary - Try to use the logic of borrowing "10" in Decimal to borrow "2 = 10" in Binary.

1. 1101
1011

2. 11110- 1011

3. 11001001 - 10110011

10

10011

00010110

Extension: Multiply the following binary numbers by using the same technique you use for multiplying decimals.

1101 x 11 11110 x 10

11001001

1101

111100

110010010

11010

100111