

Team #: \_\_\_\_\_  
 Absent: \_\_\_\_\_

Name: \_\_\_\_\_

1) Complete the following table.

	<b>Decimal (Base 10)</b>	<b>Binary (Base 2)</b>	<b>Hexadecimal (Base 16)</b>
<b>Number of digits:</b>	10		
<b>Digits:</b>	0, 1, 2, 3, 4, 5, 6, 7, 8, 9		
<b>Counting:</b>	0		
	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		
	13		
	14		
	15		
16			
17			

3. Convert  $375_{10}$  to a binary (base 2) value.

4. Convert  $375_{10}$  to a hexadecimal (base 16) value.

5. Convert  $2BA_{16}$  to a decimal (base 10) value.

6. Perform the following arithmetic operations:

$$\begin{array}{r} 1001010_2 \\ + \underline{1101110_2} \end{array}$$

$$\begin{array}{r} 1100010_2 \\ - \underline{1001011_2} \end{array}$$

$$\begin{array}{r} C B 3 1 A_{16} \\ + \underline{7 3 A 1 8_{16}} \end{array}$$

$$\begin{array}{r} A 1 9 D 1_{16} \\ - \underline{4 A 7 3_{16}} \end{array}$$