Sunday, October 3, 2021 8:55 PM

1) 
$$10 \rightarrow 2 \rightarrow 16$$
  
 $4_{(10)} = 0100_{(2)} = 4_{(16)}$   
 $10_{(10)} = 1010_{(2)} = A_{(16)}$   
 $15_{(10)} = 1111_{(2)} = F_{(16)}$   
 $32_{(10)} = 0010_{(20)}_{(2)} = 20_{(16)}$ 

2) 
$$10 \rightarrow 16 \rightarrow 2$$
  
 $3(10) = 3(16) = 0010(2)$   
 $11(10) = 8(16) = 1011(2)$   
 $16(10) = 10(16) = 10000(2)$   
 $\frac{16}{16} = \frac{16}{16} = \frac{16}{16}$ 

3) 
$$2 \rightarrow 16$$

$$1019(2) = A(16)$$

$$0111(2) = F(16)$$

$$1000,1019(2) = 8A(16)$$

$$11019(111)(2) = 1AF(16)$$

$$A_{(16)} = 11_{(2)}$$

$$A_{(16)} = 1010_{(2)}$$

$$F_{(16)} = 1111_{(2)}$$

$$28_{(16)} = 0019_{(01)}_{(2)}$$

$$2F8_{(10)} = 0019_{\{111\}} = 000_{(2)}$$

$$5)^{6}_{11}^{11}_{10}^{10}_{10}^{1$$

8) 
$$(8)_{10} = (00001000)_2$$
  
 $(67)_{10} = (10000011)_2$   
 $(230)_{10} = (11111010)_2$ 

9) 
$$(-6)_{10} = (11111010)_2$$
  
 $(-121)_{10} = >(01111001)_2 = > (10000111)_2$   
 $(70)_{10} = >(01000110)_2$