Chapter 1 Summary

Friday, January 10, 2020 11:00 AM

convert from other base to decimal  
expansion method  

$$132_{y} = 1 \times 4^{2} + 3 \times 4^{1} + 2 \times 4^{0}$$

$$= 30$$
convert from decimal to other base  
repeated division  

$$30 \Rightarrow base 4 \qquad 30 \div 4 \qquad 7 \qquad 2$$

$$7 \pm 4 \qquad 1 \qquad 3$$

$$1 \pm 4 \qquad 0 \qquad 1$$
convert between binary, octal, and hereadecimal

 $37_8 = 011 111 = 11111 = 1F_{16}$