Section 13: Convertis New integer Numbers to Decimal  
(ets (extra) once again that decimal auniters wells  
13.3  
14. dot the Crist dust to the right of  
is celled the decimal a in the "tenths"  
is celled the decimal a in the "tenths"  
is celled the decimal is in the "tenths"  
is celled the decimal is in the "tenths"  
is celled the decimal is equal to  
print 12.3 is equal to  
print 12.3 is equal to  
print 12.4 
$$\frac{1}{10}$$
  
 $2.345$   
 $12.4 \frac{1}{10}$   
 $3.345$   
 $12.4 \frac{1}{10}$   
 $3.345$   
 $12.4 \frac{1}{10}$   
 $3.345$   
 $12.4 \frac{1}{10}$   
 $12.4 \frac{1}{10}$   
 $12.4 \frac{1}{10}$   
 $12.5 \times 10^{2}$   
 $10^{2} + 3 \times 10^{2} + 4 \times 10^{2} + 5 \times 10^{2}$   
then does this work. for non-derival numbers?  
 $57.14_{10} = 5 \times 8^{1} + 7 \times 8^{2} + 1 \times 8^{2} + 4 \times 8^{2}$   
 $14e$  are express  
 $12.3 \times 10^{2} + 48 + 48 = 10^{2}$   
 $12.4 \times 10^{2} + 58 = 10^{2}$ 

$$= 40 + 7 + \frac{1}{8} + \frac{4}{8^{2}}$$

$$= 40 + 7 + 0.125 + 0.0625$$

$$= 47.1875$$

examples: convert to decided, shaving your work  
a) 
$$11.011_2 = 1 \times 2 + 1 \times 2 + 0 \times 2 + 1 \times 2^2 + 1 \times 2^3$$
  
 $f = 3.375$ 

$$\begin{array}{l} 6 \\ \hline & A0.3F6_{16} \\ \hline & (round to 3 decimal places) \\ \hline & A_{16}=10 \\ \hline & F_{16}=15 \end{array} = 10 \times 16^{1} + 0 \times 16^{0} + 3 \times 16^{-1} + 15 \times 16^{-2} + 6 \times 16^{-3} \\ \hline & = 160, 248 \end{array}$$

c) 
$$765.4_8 = 7 \times 8^2 + 6 \times 8^1 + 5 \times 8^2 + 4 \times 8^{-1}$$
  
=  $501.5$