Convert the following decimal numbers to hexadecimal (base 16). Then convert the hexadecimal numbers to binary. (Hint: Note that four binary bits is exactly sufficient to represent each of the 16 hexadecimal digits.)

binary. (Hint: Note that four binary bits is exactly sufficient to represent a) 
$$212_{10}$$
  $16/13$   $4$   $16/13$ 

b) 
$$1477_{10}$$
 $16/92$ 
 $5$ 
 $16/5$ 
 $12 \rightarrow 6$ 

c) 15.247<sub>10</sub>

For part c), obtain enough digits right of the radix point to obtain similar precision as the starting decimal value, if one were to convert your answer back to decimal.