Name: _____ Number: _____

Questions

1. Write down the binary representations of following numbers:
   $(15)_{10} =$
   $(54)_{10} =$
   $(43)_{10} =$
   $(86)_{10} =$

   Solution: $(15)_{10} = (1111)_2$, $(54)_{10} = (110110)_2$, $(43)_{10} = (101011)_2$, $(86)_{10} = (1010110)_2$,

2. Write down the hexadecimal representations of following numbers:
   $(15)_{10} =$
   $(54)_{10} =$
   $(43)_{10} =$
   $(86)_{10} =$

   Solution: $(15)_{10} = (F)_{16}$, $(54)_{10} = (36)_{16}$, $(43)_{10} = (2B)_{16}$, $(86)_{10} = (56)_{16}$,

3. Calculate following questions in decimal base
   $25 \vee 13 =$
   $41 \wedge 7 =$
   $3 \oplus 17 =$

   Solution: $25 \vee 13 = 29$, $41 \wedge 7 = 1$, $3 \oplus 17 = 18$

4. Fill the following tables

$\wedge$	0	1

$\vee$	0	1

$\oplus$	0	1