

Decimal	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Binary	0	1														
Hexadecimal	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F

Decimal to Binary

$$45 = 32 + 8 + 4 + 1 \quad 101101$$

$$67 = 64 + 2 + 1 \quad 1000011$$

$$482 = 256 + 128 + 64 + 32 + 2 \quad 111100010$$

Binary to Decimal

$$1011010$$

$$64 + 16 + 8 + 0 + 2 + 0 = 90$$

$$111010111$$

$$128 + 64 + 16 + 4 + 2 + 1 = 211$$

Decimal HEX

$$150$$

$$150 \div 16 = 9.375 = 9, \text{ remainder } 6 \text{ LSB}$$

$$9 \div 16 = 0.5625 = 0, \text{ remainder } 9 \text{ MSB}$$

$$\therefore 150_{10} = \boxed{96}_{16} \checkmark$$

$$587$$

$$587 \div 16 = 36 \text{ R } 11 = B$$

$$36 \div 16 = 2 \text{ R } 4$$

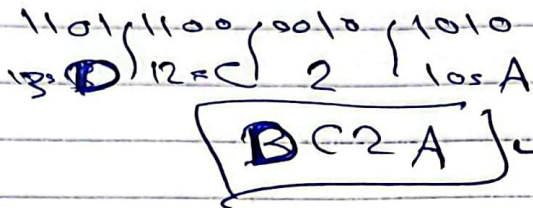
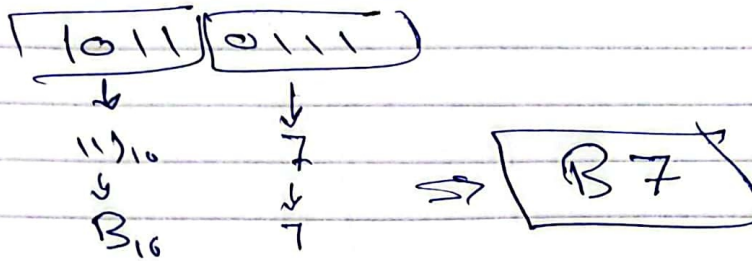
$$2 \div 16 = 0 \text{ R } 2$$

$$\Rightarrow 587_{10} = \boxed{24B}$$

From HEX \rightarrow decimal

$$24B = (2 \times 16^2) + (4 \times 16^1) + (11 \times 16^0) = 587$$

Binary to HEX



0000	0
0001	1
0010	2
0011	3
0100	4
0101	5
0110	6
0111	7
1000	8
1001	9
1010	10=A
1011	11=B
1100	12=C
1101	13=D
1110	14=E
1111	15=F

