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 Decimal to Binary 			
a. 55	55/2	27	1
	27/2	13	1
	13/2	6	1
	6/2=	3	0
	3/2=	1	1
	1/2=	0	1
<u>55 = 110111b</u>			
b.1011	1011/2=	505	1
	505/2	252	1
	252/2=	126	0
	126/2=	63	0
	63/2=	31	1
	31/2	15	1
	15/2	7	1
	7/2=	3	1
	3/2=	1	1
	1/2=	0	1
4044 4444400441			

1011 = 1111110011b

2. Binary to Decimal

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a. 1001 1001b	(0*2)+ 1 =	1
	(1*2)+ 0 =	2
	(2*2)+ 0 =	4
	(4*2)+ 1 =	9
	(9*2)+ 1 =	19
	(19*2)+ 0 =	38
	(38*2)+0	76
	(76*2)+1	153
1001 1001b = 153		
b. 1001 1010 1010b	(0*2)+1=	1
	(1*2)+ 0 =	2
	(2*2)+ 0 =	4
	(4*2)+1=	9
	(9*2)+ 1 =	19
	(19*2)+ 0 =	38
	(38*2)+ 1 =	77
	(77*2)+ 0 =	154
	(77 2) 0-	134
	(154*2)+ 1 =	309
	(309*2)+ 0 =	618
	(618*2)+ 1 =	1237
	(1237*2)+ 0 =	2474
1001 1010 1010b = 2474		

3. Decimal to Hexadecimal

a. 117

$$117/16 = 7 R5$$

$$7/16 = 0.45 R7$$

$$R7 + R5 = 0x75$$

$$117 = 0x75$$

b. 521

$$521/16$$
 32 R9 32/16 2 + R0 + R9 = 0x209

521 = 0x209

4. Hexadecimal to Decimal

a. 0x237

7
48
512
567

0x237 = 567

b. 0xA0E

0xA0E = 2574

5. Binary to Hexadecimal

a. 1001 1001 1010b

1001 =		9
1001=		9
1010=	10 = (A)	
	99A	

$1001\ 1001\ 1010b = 0x99A$

b. 1110 1001 1010 0010b

1110 1001 1010 0010b = 0x2A9E

6. Hexadecimal to Binary

a. 0x5A7

5*16^2=	1280
A(10)*16=	160
7*1=	7
	1447

0x5A7 = 1447

b. 0xC0D

C(12)*16^2=	3072
0*16=	0
D(13)*1=	13
	3085

0xC0D = 3085