Subnet And Number Conversion Charts

Subnet Chart

2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0	2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0	2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0	
128	64	32	16	8	4	2	1	128	64	32	16	8	4	2	1	128	64	32	16	8	4	2	1	Host Bit Length
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	CIDR
128	192	224	240	248	252	254	255	128	192	224	240	248	252	254	255	128	192	224	240	248	252	254	255	Subnet Mask
8388608	4194304	2097152	1048576	524288	262144	131072	65536	32768	16384	8192	4096	2048	1024	512	256	128	64	32	16	8	4	2	1	Network Addresses
8388606	4194302	2097150	1048574	524286	262142	131072	65534	32766	16382	8190	4094	2046	1022	510	254	126	62	30	14	6	2	-	-	Hosts
2	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384	32768	65536	131072	262144	524288	1048576	2097152	4194304	8388608	X	Class A Subnets
								2	4	8	16	32	64	128	256	512	1024	2048	4096	8192	16384	32768	X	Class B Subnets
																2	4	8	16	32	64	128	X	Class C Subnets

Number Converison worksheet

2^15	2^14	2^13	2^12	2^11	2^10	2^9	2^8	2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0
32768	16384	8192	4096	2048	1024	512	256	128	64	32	16	8	4	2	1

Number Conversion Chart

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

Hex to Dec - Find value for x542

Powers method	
2*16^0=2	
4*16^1=64	
5*16^2=1280	
Add up the answers	2+64+1280 = 1346
1346 is Dec for x542 Hex	

Dec to Hex - Find value for 1346

Device the number by 16 and the remainder is your hex diget from right to left.

1346/16=	84 R 2	
84/16=	5 R 4	

Beings the 5 is less than 16 you use that number.

Dec 1346 = x542 in Hex

Binary to Dec - Find Value of 0110

2^3	2^2	2^1	2^0
8	4	2	1
0	1	1	0

Add the 1's together

4+2= 6

Hex to Binary - Find value of x542

2^3	2^2	2^1	2^0	
8	4	2	1	
0	0	1	0	2
0	1	0	0	4
0	1	0	1	5

x542 = 0101 (5) 0100 (4) 0010 (2) = 010101000010