IP Conversion Chart

Binary to Decimal Conversion

To convert, add the corresponding chart numbers.
1010110 = 172

BIN

10101100 $2^8 = 256$

1	0	1	0	1	1	0	0
128	64	32	16	8	4	2	1

128 + 32 + 8 + 4 = 172

Decimal to Binary Conversion

To convert, subtract the chart numbers from the decimal.
196 = 11000100

DEC

196 =

1	1	0	0	0	1	0	0
128	64	32	16	8	4	2	1

196
-128
68
-64
4

Ipv4 Classes

Class	IP Range	Subnet Mask
A	1 - 126	255.0.0.0 1st octet full
B	128 - 191	255.255.0.0 1st and 2nd octets full
C	192 - 223	255.255.255.0 1st, 2nd and 3rd octets full
D	224 - 239	Class D addresses are called multicast addresses. A multicast address identifies multiple computers rather than a single host.
E	240 - 255	Class E addresses are experimental.

Using a static IP address assignment strategy has its place, especially when managing servers and other network infrastructure devices. We want to assign servers and routers static IP addresses that don't change.