

Class A (1<sup>st</sup> Octet (Value) 0-127)

11111111. | 00000000.00000000.00000000

Class A Default Subnet Mask 255.0.0.0 or /8

Class B (1<sup>st</sup> Octet (Value) 128-191)

11111111.11111111. | 00000000.00000000

Class B Default Subnet Mask 255.255.0.0 or /16

Class C (1<sup>st</sup> Octet (Value) 192-223)

11111111.11111111.11111111.00000000

Class C Default Subnet Mask 255.255.255.0 or /24

# AND or ANDing

INPUT 1	INPUT 2	OUTPUT
0	0	0
0	1	0
1	0	0
1	1	1

## NOTE: This applies for any IP Address

IP address: 10.0.0.1 = 00001010.00000000.00000000.00000001

Subnet mask 255.0.0.0= 11111111.00000000.00000000.00000000

IPv4 Network Address = 00001010.00000000.00000000.00000000

10 . 0 . 0 . 0

Everyone write this down; Custom subnet mask decimal # Converted to binary cheatsheet.

128 10000000

192 11000000

224 11100000

240 11110000

248 11111000

252 11111100

254 11111110

255 11111111

Subnet (left to right on magic box)

Finding host bits (right to left on magic box)