	Value of Bits by Position								
	2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0	
Binary Value	128	64	32	16	8	4	2	1	Decimal Value
10000000	1	0	0	0	0	0	0	0	128
11000000	1	1	0	0	0	0	0	0	192
11100000	1	1	1	0	0	0	0	0	224
11110000	1	1	1	1	0	0	0	0	240
11111000	1	1	1	1	1	0	0	0	248
11111100	1	1	1	1	1	1	0	0	252
11111110	1	1	1	1	1	1	1	0	254
11111111	1	1	1	1	1	1	1	1	255

Explanations

IP Addressing and Su https://www.cisco.com/c/en/us/support/docs/ip/routing-information-protocol-rip/13788-3.html
IP Subnetting Made E https://www.techrepublic.com/blog/data-center/ip-subnetting-made-easy-125343/

Cheatsheets

IPv4 Cheatsheet https://subnettingpractice.com/images/IPv4_cheat_sheet.png
IPv4 Subnetting http://www.genautica.com/cheatsheets/IPv4_Subnetting.jpg

Practice

Cisco Binary Game https://learningnetwork.cisco.com/docs/DOC-1803
Subnetting Practice G https://www.subnetting.net/Start.aspx
IP Subnet Practice Pa https://www.lammle.com/ip-subnet-practice-page/

Calculators

ipcalc http://jodies.de/ipcalc
Subnet Calculator http://www.subnet-calculator.com/