Subnet Mask Cheat Sheet

See also [RFC 1878](#).

	Addresses	Hosts	Netmask	Amount of a Class C
/30	4	2	255.255.255.252	1/64
/29	8	6	255.255.255.248	1/32
/28	16	14	255.255.255.240	1/16
/27	32	30	255.255.255.224	1/8
/26	64	62	255.255.255.192	1/4
/25	128	126	255.255.255.128	1/2
/24	256	254	255.255.255.0	1
/23	512	510	255.255.254.0	2
/22	1024	1022	255.255.252.0	4
/21	2048	2046	255.255.248.0	8
/20	4096	4094	255.255.240.0	16
/19	8192	8190	255.255.224.0	32
/18	16384	16382	255.255.192.0	64
/17	32768	32766	255.255.128.0	128
/16	65536	65534	255.255.0.0	256

Guide to sub-class C blocks

/25 -- 2 Subnets -- 126 Hosts/Subnet

Network #	IP Range	Broadcast
.0	.1-.126	.127
.128	.129-.254	.255

/26 -- 4 Subnets -- 62 Hosts/Subnet

Network #	IP Range	Broadcast
.0	.1-.62	.63
.64	.65-.126	.127
.128	.129-.190	.191
.192	.193-.254	.255

/30 -- 64 Subnets -- 2 Hosts/Subnet

Network #	IP Range	Broadcast
.0	.1-.2	.3
.4	.5-.6	.7
.8	.9-.10	.11
.12	.13-.14	.15
.16	.17-.18	.19
.20	.21-.22	.23
.24	.25-.26	.27
.28	.29-.30	.31
.32	.33-.34	.35
.36	.37-.38	.39

/27 -- 8 Subnets -- 30 Hosts/Subnet

Network #	IP Range	Broadcast
.0	.1-.30	.31
.32	.33-.62	.63
.64	.65-.94	.95
.96	.97-.126	.127
.128	.129-.158	.159
.160	.161-.190	.191
.192	.193-.222	.223
.224	.225-.254	.255

/28 -- 16 Subnets -- 14 Hosts/Subnet

Network #	IP Range	Broadcast
.0	.1-.14	.15
.16	.17-.30	.31
.32	.33-.46	.47
.48	.49-.62	.63
.64	.65-.78	.79
.80	.81-.94	.95
.96	.97-.110	.111
.112	.113-.126	.127
.128	.129-.142	.143
.144	.145-.158	.159
.160	.161-.174	.175
.176	.177-.190	.191
.192	.193-.206	.207
.208	.209-.222	.223
.224	.225-.238	.239
.240	.241-.254	.255

/29 -- 32 Subnets -- 6 Hosts/Subnet

Network #	IP Range	Broadcast
.0	.1-.6	.7
.8	.9-.14	.15
.40	.41-.42	.43
.44	.45-.46	.47
.48	.49-.50	.51
.52	.53-.54	.55
.56	.57-.58	.59
.60	.61-.62	.63
.64	.65-.66	.67
.68	.69-.70	.71
.72	.73-.74	.75
.76	.77-.78	.79
.80	.81-.82	.83
.84	.85-.86	.87
.88	.89-.90	.91
.92	.93-.94	.95
.96	.97-.98	.99
.100	.101-.102	.103
.104	.105-.106	.107
.108	.109-.110	.111
.112	.113-.114	.115
.116	.117-.118	.119
.120	.121-.122	.123
.124	.125-.126	.127
.128	.129-.130	.131
.132	.133-.134	.135
.136	.137-.138	.139
.140	.141-.142	.143
.144	.145-.146	.147
.148	.149-.150	.151
.152	.153-.154	.155
.156	.157-.158	.159
.160	.161-.162	.163
.164	.165-.166	.167
.168	.169-.170	.171
.172	.173-.174	.175

.16	.17-.22	.23
.24	.25-.30	.31
.32	.33-.38	.39
.40	.41-.46	.47
.48	.49-.54	.55
.56	.57-.62	.63
.64	.65-.70	.71
.72	.73-.78	.79
.80	.81-.86	.87
.88	.89-.94	.95
.96	.97-.102	.103
.104	.105-.110	.111
.112	.113-.118	.119
.120	.121-.126	.127
.128	.129-.134	.135
.136	.137-.142	.143
.144	.145-.150	.151
.152	.153-.158	.159
.160	.161-.166	.167
.168	.169-.174	.175
.176	.177-.182	.183
.184	.185-.190	.191
.192	.193-.198	.199
.200	.201-.206	.207
.208	.209-.214	.215
.216	.217-.222	.223
.224	.225-.230	.231
.232	.233-.238	.239
.240	.241-.246	.247
.248	.249-.254	.255

.176	.177-.178	.179
.180	.181-.182	.183
.184	.185-.186	.187
.188	.189-.190	.191
.192	.193-.194	.195
.196	.197-.198	.199
.200	.201-.202	.203
.204	.205-.206	.207
.208	.209-.210	.211
.212	.213-.214	.215
.216	.217-.218	.219
.220	.221-.222	.223
.224	.225-.226	.227
.228	.229-.230	.231
.232	.233-.234	.235
.236	.237-.238	.239
.240	.241-.242	.243
.244	.245-.246	.247
.248	.249-.250	.251
.252	.253-.254	.255