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## Class A Subnetting

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<b>Subnets Required</b>	<b>Additional Bit Needed</b>	<b>Maximum Hosts Per Subnet</b>	<b>Subnet Mask</b>
0	0	16,777,214	255.0.0.0
2 (subnets 0 & 128)	1	8,388,606	255.128.0.0 (Not Recommended)
2	2	4,194,302	255.192.0.0
6	3	2,097,150	255.224.0.0
14	4	1,048,574	255.240.0.0
30	5	524,286	255.248.0.0
62	6	262,142	255.252.0.0
126	7	131,070	255.254.0.0
254	8	65,534	255.255.0.0

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## Class B Subnetting

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<b>Subnets Required</b>	<b>Additional Bit Needed</b>	<b>Maximum Hosts Per Subnet</b>	<b>Subnet Mask</b>
0	0	65,534	255.255.0.0
2 (subnets 0 & 128)	1	32,766	255.255.128.0 (Not Recommended)
2	2	16,382	255.255.192.0
6	3	8,190	255.255.224.0
14	4	4,094	255.255.240.0
30	5	2,046	255.255.248.0
62	6	1,022	255.255.252.0
126	7	510	255.255.254.0
254	8	254	255.255.255.0

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## Class C Subnetting

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<b>Subnets Required</b>	<b>Additional Bit Needed</b>	<b>Maximum Hosts Per Subnet</b>	<b>Subnet Mask</b>
0	0	254	255.255.255.0
2 (subnets 0 & 128)	1	126	255.255.255.128 (Not Recommended)
2	2	62	255.255.255.192
6	3	30	255.255.255.224
14	4	14	255.255.255.240
30	5	6	255.255.255.248
62	6	2	255.255.255.252
126	7	Invalid	255.255.255.254
254	8	Invalid	255.255.255.255

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