

**LANSING EASTERN HIGH SCHOOL CNAP  
SUBNETTING PRACTICE (ANSWERS)**

Fill in the following table based on an IP Address of 192.168.123.0 and a Subnet Mask of 255.255.255.192

Network	Hosts		Broadcast Address
	From	To	
192.168.123.0	192.168.123.1	192.168.123.62	192.168.123.63
192.168.123.64	192.168.123.65	192.168.123.126	192.168.123.127
192.168.123.128	192.168.123.129	192.168.123.190	192.168.123.191
192.168.123.192	192.168.123.193	192.168.123.254	192.168.123.255

You have been assigned a network address of 200.10.57.0, and are responsible for developing an IP Addressing scheme for your corporate network. You must have exactly 6 useable subnets, however, you have not been given a subnet mask. Fill in the table below.

Network	Hosts		Broadcast Address
	From	To	
200.10.57.0	200.10.57.1	200.10.57.30	200.10.57.31
200.10.57.32	200.10.57.33	200.10.57.62	200.10.57.63
200.10.57.64	200.10.57.65	200.10.57.94	200.10.57.95
200.10.57.96	200.10.57.97	200.10.57.126	200.10.57.127
200.10.57.128	200.10.57.129	200.10.57.158	200.10.57.159
200.10.57.160	200.10.57.161	200.10.57.190	200.10.57.191
200.10.57.192	200.10.57.193	200.10.57.222	200.10.57.223
200.10.57.224	200.10.57.225	200.10.57.254	200.10.57.255

Subnet Mask: \_\_\_\_\_.\_\_\_\_\_.

Number of Hosts Per Subnet: \_\_\_\_\_.

**Activity Created by: Kyle P. Shumaker, CCNA**

Fill in the following table based on an IP Address of 215.110.50.0 and a Subnet Mask of 255.255.255.192

Network	Hosts		Broadcast Address
	From	To	
215.110.50.0	215.110.50.1	215.110.50.62	215.110.50.63
215.110.50.64	215.110.50.65	215.110.50.126	215.110.50.127
215.110.50.128	215.110.50.129	215.110.50.190	215.110.50.191
215.110.50.192	215.110.50.193	215.110.50.254	215.110.50.255

You have been assigned a network address of 210.16.125.0, and are responsible for developing an IP Addressing scheme for your corporate network. You must have exactly 6 useable subnets, however, you have not been given a subnet mask. Fill in the table below.

Network	Hosts		Broadcast Address
	From	To	
210.16.125.0	210.16.125.1	210.16.125.30	210.16.125.31
210.16.125.32	210.16.125.33	210.16.125.62	210.16.125.63
210.16.125.64	210.16.125.65	210.16.125.94	210.16.125.95
210.16.125.96	210.16.125.97	210.16.125.126	210.16.125.127
210.16.125.128	210.16.125.129	210.16.125.158	210.16.125.159
210.16.125.160	210.16.125.161	210.16.125.190	210.16.125.191
210.16.125.192	210.16.125.193	210.16.125.222	210.16.125.223
210.16.125.224	210.16.125.225	210.16.125.254	210.16.125.255

Subnet Mask: \_\_\_\_\_.\_\_\_\_\_.

Number of Hosts Per Subnet: \_\_\_\_\_.

**Activity Created by: Kyle P. Shumaker, CCNA**