1. Subnet the IP Address 203.10.93.0 /24 into 30 Subnets. Is 203.10.93.30 a valid Host ID after subnetting?

2. You are given the IP Address of 193.103.20.0 /24 and need 50 Subnets. How many hosts per network and total networks do you get once sub netted?

3. Your company has been given the IP Address of 199.2.1.0 /24 to the subnet. You plan to put each of the 5 floors in your building on its own subnet. What is the IP range of the LAST available network once your subnet?

4. Your company wants to utilize the private Class C IP Address of 192.168.1.0. You are tasked with Subnetting the Address to get the most networks with at least 30 Hosts per Subnet. How many Networks will be created after you subnet? Also, what is the first usable IP Address in the Second Network range?

5. Subnet the IP Address 210.30.12.0, so there are 60 Hosts in each network. What are the Broadcast Addresses of each Network?

6. Your ISP has given you the address 223.5.14.6/29 to assign to your router's interface. They have also given you the default gateway address of 223.5.14.7. After you have configured the address, the router is unable to ping any remote devices. What is preventing the router from pinging remote devices?

7. Given the address 192.168.20.19/28, which of the following are valid host addresses on this subnet?

8. You have sub-netted your class C network 192.168.1.0 with a subnet mask of 255.255.255.240. Please list the following: number of networks, number of hosts per network, the full range of the first three networks, and the usable address range from those first three networks.

9. You have sub-netted your class C network 200.138.1.0 with a subnet mask of 255.255.255.252. Please list the following: number of networks, number of hosts per network, the full range of the first three networks, and the usable address range from those first three networks. Additionally, identify the broadcast addresses for each network.

10. You currently use the default mask for your IP network 192.168.1.0. You need to subnet your network so that you have 30 additional networks, and 4 hosts per network. Is this possible, and what subnet mask should you use?