## Unit 6 Subnetting Lab 6

Answer the following questions listed.

Using the Class B Subnetting Guide, answer the following:

Given an IP address of 172.16.8.1 use the guide to get 30 hosts on each of your 2000 networks:

1. What Class is this IP address? \_\_\_\_\_
2. How many bits would you borrow or take? \_\_\_\_\_\_\_
3. What subnet mask would you generate? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What is the first subnetwork range created? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What is the last subnetwork range created? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Given an IP address of 172.16.4.1 use the guide to get 62 hosts on each of your 16000 networks:

1. What Class is this IP address? \_\_\_\_\_
2. How many bits would you borrow or take? \_\_\_\_\_\_\_
3. What subnet mask would you generate? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What is the first subnetwork range created? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What is the last subnetwork range created? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Given an IP address of 172.16.5.1 use the guide to get 100 hosts on each of your 500 networks:

1. What Class is this IP address? \_\_\_\_\_
2. How many bits would you borrow or take? \_\_\_\_\_\_\_
3. What subnet mask would you generate? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What is the first subnetwork range created? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What is the last subnetwork range created? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_