**CCNA Exploration 2, “Static Routing”**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_ are the devices responsible for the transfer of packets from one network to the next.
2. What are common and do not require the same amount of processing and overhead than dynamic routing?
3. In what two ways are routers responsible for interconnecting networks?
4. The routers primary forwarding decision is based on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ address.
5. Newer routers support the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ that allows for more datato be forwarded across fewer cable pins.
6. Straight-through cables are used for:
7. Crossover cables are used for:
8. \_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_ will not be added to the routing table until the appropriate local interfaces, also known as the exit interfaces, have been configured on the router.
9. Which command gives a detailed description for all interfaces on the router?
10. Describe the output of the following commands:
    1. Show ip route:
    2. Show interfaces:
    3. Show ip interface brief:
    4. Show running-config:
11. By default, all router interfaces are\_\_\_\_\_\_\_\_, or turned off. To enable this interface, use the \_\_\_\_\_\_\_\_\_\_ command, which changes the interface from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to up.
12. In order to keep the unsolicited output separate from your input, enter line configuration mode for the consoled port and add the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ command.
13. Explain the parts of the following output: C 172.16.3.0 is directly connected, FastEthernet0/0
14. What command might you use on a serial interface that you wouldn’t use on an Ethernet interface?
15. Describe the output of the “show controllers” command?
16. A router's Ethernet interface participates in a LAN network just like any other device on that network. This means that these interfaces have a\_\_\_\_\_\_\_\_\_\_\_\_\_. The \_\_\_\_\_\_\_\_\_\_\_\_\_ command displays the MAC address for the Ethernet interfaces.