

TCP/IP Protocol Review

1. How many bits are in the version 4 TCP/IP address?
2. What are the first octet ranges with these TCP/IP class?
 - a. Class A
 - b. Class B
 - c. Class C
3. What is the subnet mask for the TCP/IP address, 200.50.50.1
4. What is the subnet mask for the TCP/IP address, 150.250.25.254?
5. What is the subnet mask for the TCP/IP address, 50.100.0.254?
6. What is the binary number for the base 10 number 137?
7. What is the base 10 number for the binary number 11011101?
8. What TCP/IP address first octet is reserved for Network Administrators?
9. How many computers can we add to the following TCP/IP classes?
 - a. Class A
 - b. Class B
 - c. Class C
10. If a large university exceeds the number of devices they can use on a Class TCP/IP network, what is the best thing they can do?
11. What is the network address for the TCP/IP address 200.20.2.1? What is the computer address for the TCP/IP address 200.20.2.1?
12. What is the network address for the TCP/IP address 96.0.0.1? What is the computer address for the TCP/IP address 96.0.0.1?
13. What is the network address for the TCP/IP address 30.0.0.1? What is the computer address for the TCP/IP address 30.0.0.1?
14. Name ten protocols that are part of the TCP/IP protocol suite.
15. What are the four layers of the TCP/IP model starting with layer 1 on the bottom to layer 4 on the top?
16. How many bits are in a single octet of a dot quad TCP/IP address?
17. What network device is capable of translating the TCP/IP to another protocol?
18. What radio button do we select on the Internet Protocol Version 4 Properties window to get dynamic addressing?
19. The gateway we select on the Internet Protocol Version 4 Properties window to set TCP/IP addressing is typically what device?

TCP/IP Protocol Review

20. How can we test the client computer after setting it up on a home network with a TCP/IP address 192.168.20.5 and a gateway of 192.168.20.1 and DNS address of 206.18.46.15 and 206.18.46.16. The subnet mask is 255.255.255.0.