✓ **Congratulations! You passed!**
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Static and Dynamic Address Assignments

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1. **How do you enable DHCP on a Windows PC client?** `1 / 1 point`

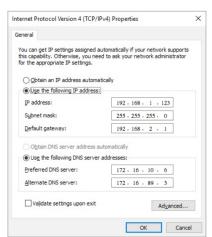   > Go into TCP/IP properties and click Obtain an IP address automatically.

   ✓ **Correct**
   Go into TCP/IP properties and click **Obtain an IP address automatically.**

2. **What is a benefit of assigning a static IP address to a client?** `1 / 1 point`

   ○ less time to configure and manage network

   ⦿ easy and consistent access to a device in use by everyone such as a printer or server.

   ○ eliminates errors in configuration

   ✓ **Correct**
   These devices will have a known IP address that does not change.

3. `1 / 1 point`

   Refer to the exhibit. You decided to statically assign an address to your network. After using the ping command to verify connectivity, the ping request replies timeout. What is the most likely cause of the problem?

   ○ Hosts are not allowed to have an address where the host portion is above 100.

   ⦿ The default gateway and the hosts are not on the same network.

   ○ The subnet mask is not valid.

   ○ The assigned IP is not private.

   ✓ **Correct**
   The subnet mask indicates the network portion where the binary bit is a 1. In this case, 255.255.255.0 means that the first 3 octets are the network portion and must be the same between all host. The default gateway is on the 192.168.2.0 network while the host is on the 192.168.1.0 network. They are not on the same network and they must be for connectivity.

4. **What is the purpose of DHCP?** `1 / 1 point`

   ⦿ provides a mechanism for the automatic assignment of addressing information for a client

○ provides DNS addressing information to clients

○ gives clients the option to statically or dynamically assign itself an address

○ allows for the reuse of addresses on a network

✓ **Correct**

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