**Step 1: Connect two workstations.**

**Using the correct Ethernet cable, connect two workstations together. Connect one end of the cable to the NIC port on PC1 and the other end of the cable to PC2.Which cable did you use?**

\_\_\_\_copper cross over\_\_\_\_

**3. Use the ping command to verify that PC1 can reach PC2 and PC2 can reach PC1. From themPC1 DOS command prompt, type ping 192.168.1.3. From the PC2 DOS command prompt, type ping 192.168.1.2.What is the output of the ping command?**

\_\_\_\_\_\_Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time=1ms TTL=128

Reply from 192.168.1.3: bytes=32 time<1ms TTL=128

Reply from 192.168.1.3: bytes=32 time<1ms TTL=128

Reply from 192.168.1.3: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms\_\_\_\_\_\_\_\_\_\_\_

**What is the output of the ping command if you unplug the network cable and ping the other workstation?**

\_\_\_\_\_\_\_\_\_\_Pinging 192.168.1.3 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 192.168.1.3:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Task 4: Connect Your Workstations to the Classroom Lab Switch.**

**Which cable did you use? \_\_\_\_**straight-through cable**\_\_\_\_**

**3. Use the ping command to verify that PC1 can reach PC2 and PC2 can reach PC1.**

**From the PC1 DOS command prompt, type ping 192.168.1.3.What is the output of the ping command?**

**\_\_\_\_\_\_**Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time<1ms TTL=128

Reply from 192.168.1.3: bytes=32 time<1ms TTL=128

Reply from 192.168.1.3: bytes=32 time<1ms TTL=128

Reply from 192.168.1.3: bytes=32 time=5ms TTL=128

Ping statistics for 192.168.1.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 5ms, Average = 1ms**\_\_\_\_\_\_\_\_**

**From the PC2 DOS command prompt, type ping 192.168.1.2. What is the output of the ping command?**

**\_\_\_\_\_\_\_** Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time=9ms TTL=128

Reply from 192.168.1.2: bytes=32 time=7ms TTL=128

Reply from 192.168.1.2: bytes=32 time=6ms TTL=128

Reply from 192.168.1.2: bytes=32 time=7ms TTL=128

Ping statistics for 192.168.1.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 6ms, Maximum = 9ms, Average = 7ms**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Task 5: Reflection**

**What could prevent a ping from being sent between the workstations when they are directly connected?**

**\_\_\_\_\_** connecting two workstation with straight-through cable directly. Or, the firewall on pc is turned on. **\_\_\_\_\_\_\_**

**What could prevent the ping from being sent to the workstations when they are connected through the switch?**

**\_\_\_\_\_** Connecting to the switch with cross-over cable or the firewall on pc is turned on. **\_\_\_\_\_\_\_**