Congratulations! You passed!
TO PASS 80% or higher

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The Transport Layer

TOTAL POINTS 4

1. What ordering of TCP flags makes up the Three-way Handshake? **1 / 1 point**

- ○ FIN, FIN/ACK, ACK
- ○ SYN, ACK, SYN, ACK
- ◉ SYN, SYN/ACK, ACK
- ○ SYN, ACK, FIN

Correct
Great work! The computer that wants to establish a connection sends a packet with the SYN flag set. Then, the server responds with a packet with both the SYN and ACK flags set. Finally, the original computer sends a packet with just the ACK flag set.

2. Transport layer protocols, like TCP and UDP, introduce the concept of a port. How many bits is a port field? **1 / 1 point**

- ○ 4 bits
- ○ 8 bits
- ◉ 16 bits
- ○ 32 bits

Correct
Nice job! A TCP or UDP port is a 16-bit number, meaning there are theoretically 65,535 possible values it can have.

3. Please select all valid TCP control flags. **1 / 1 point**

- ☐ CLOSE
- ☐ LISTEN
- ☐ WAIT
- ☑ ACK

Correct
Nice job! ACK is short for acknowledged and means that the data was received.

- ☑ URG

Correct
You nailed it!

- ☑ RST

Correct
You got it! RST is used to reset a connection if something has gone wrong.

4. A device that blocks traffic that meets certain criteria is know as a _____. **1 / 1 point**

- ○ Switch
- ○ Hub
- ○ Router
- ◉ Firewall

Correct
That's right! A firewall is used to block certain defined types of traffic.