

# Check Test13 Routing Between Networks Quiz

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Student number & Your name \*

⌵ Dropdown 0 points

Teacher ▼

1. Which information is used by routers to forward a data packet toward its destination?

\* 1 point

- ☐ source IP address
- ☒ destination IP address
- ☐ source data-link address
- ☐ destination data-link address

2. If the default gateway is configured incorrectly on the host, what is the impact on communications?

\* 1 point

- ☐ The host is unable to communicate on the local network.
- ☒ The host can communicate with other hosts on the local network, but is unable to communicate with hosts on remote networks.
- ☐ The host can communicate with other hosts on remote networks, but is unable to communicate with hosts on the local network.
- ☐ There is no impact on communications.

3. What role does a router play on a network? \*

1 point

- ☐ forwarding Layer 2 broadcasts
- ☐ forwarding frames based on a MAC address
- ☒ selecting the path to destination networks
- ☐ connecting smaller networks into a single broadcast domain

4. Which address should be configured as the default gateway address of a client device?

\* 1 point

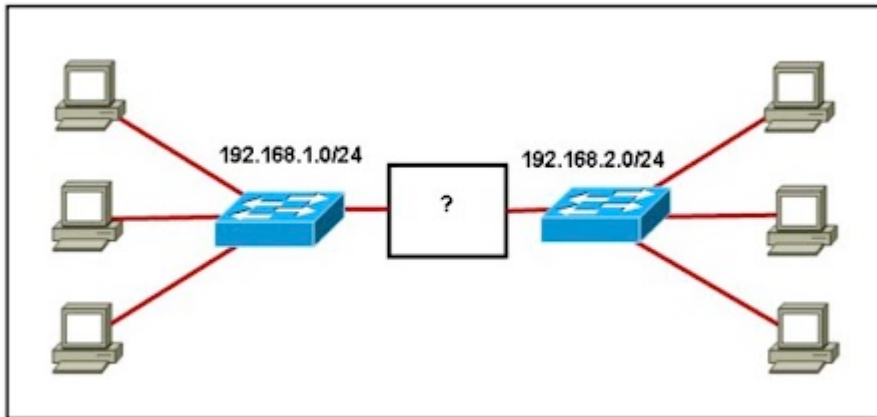
- ☐ the Layer 2 address of the switch management interface
- ☐ the Layer 2 address of the switch port that is connected to the workstation
- ☒ the IPv4 address of the router interface that is connected to the same LAN
- ☐ the IPv4 address of the router interface that is connected to the internet

5. Which device is used to transfer data from one IP local network to a remote network?

\* 1 point

- ☐ NIC card
- ☐ switch
- ☒ router
- ☐ server

6. Refer to the exhibit. To allow IP communication between the two separate networks, \* 1 point  
what type of device is required?



- ☐ server
- ☒ router
- ☐ switch
- ☐ access point

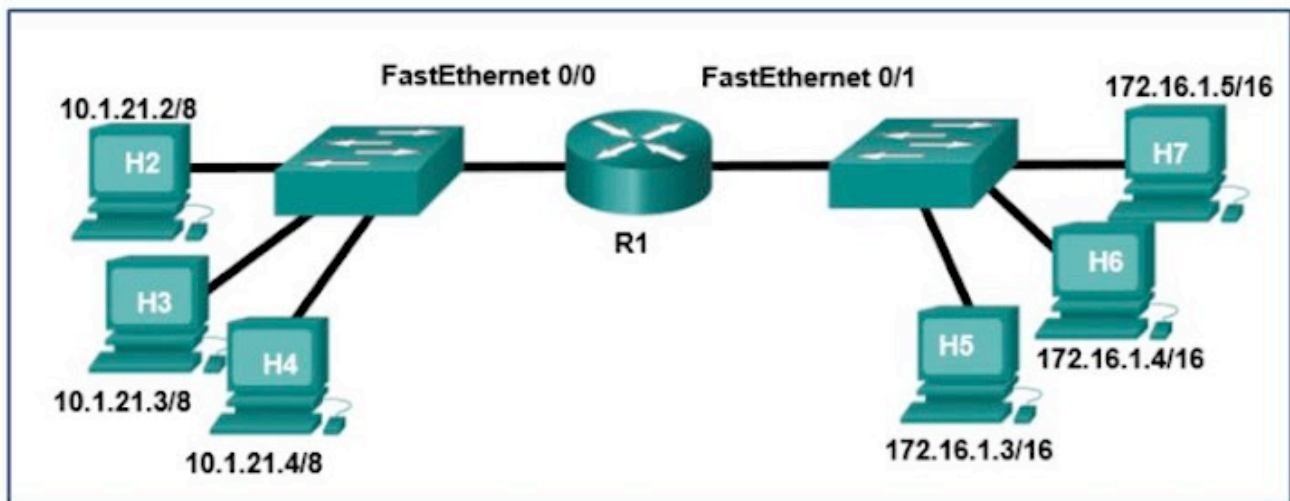
7. What is a benefit of adding a router within an IP network? \*

1 point

- ☐ increases the size of the local network
- ☒ keeps broadcasts contained within a local network
- ☐ reduces the number of hosts that can connect to the network
- ☐ controls host-to-host traffic within a single local network

8. Refer to the exhibit. Host H7 sends a packet with the destination IP address of 255.255.255.255. What does router R1 do when it receives the packet from host H7?

\* 1 point



R1 – Routing Table

Type	Network	Port
C	10.0.0.0/8	FastEthernet0/0
C	172.16.0.0/16	FastEthernet0/1

- ☒ examines the packet received on interface FastEthernet0/1 and does not forward the packet
- ☐ changes the Layer 2 header information and forwards the packet out all connected interfaces
- ☐ checks the routing table and forwards the packet out interface FastEthernet0/0
- ☐ changes the destination IP address and forwards the packet out interface FastEthernet0/0

9. What action will a router take when it receives a frame with a broadcast MAC address?

1 point

- ☒ It will not forward the frame to another network.
- ☐ It forwards the frame back to the sending host.
- ☐ It forwards the frame out of all connected interfaces.
- ☐ It forwards the frame back out the receiving interface.

10. What are two reasons to install routers to segment a network? (Choose two.) \*

1 point

- ☐ to limit the number of devices that can connect to the network
- ☒ to expand the network to a different geographic location
- ☒ to create smaller broadcast domains within the network
- ☐ to reduce the number of switches needed to connect devices

11. Which table does a router use to determine which interface to use to send packets to the destination network? \* 1 point

- ☐ ARP table
- ☒ routing table
- ☐ network table
- ☐ forwarding table

12. What action does the router take when it does not find a route to the destination network in its routing table? \* 1 point

- ☒ It drops the packet.
- ☐ It sends the packet as a broadcast.
- ☐ It returns the packet to the sender.
- ☐ It sends the packet out all connected interfaces.

Your understanding of today's class \*

1 2 3 4 5

I didn't understand the class at all

☐☐☐☐☒

I understand the class very well

What you did not understand in today's class? (Option)

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