

# Quiz12\_2 Check Your Understanding - Broadcast Containment

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Student number & Your name \*

⌵ Dropdown

Teacher



1. The destination MAC address of an Ethernet broadcast in hexadecimal is: \*

1 point

- ☐ 1111.1111.1111
- ☒ FFFF.FFFF.FFFF
- ☐ 48 one bits
- ☐ 48 F digits

2. When an Ethernet switch receives a frame that is broadcast, it will: \*

1 point

- ☐ Forward the frame out only ports that need the broadcast
- ☐ Forward the frame out all ports including the incoming port
- ☒ Forward the frame out all ports except the incoming port
- ☐ Drop the frame

3. Host-A has an Ethernet frame to send to Host-B on the same network. Host-A knows the IP address of Host-B but not its MAC address. What message will Host-A send to determine the MAC address of Host B?

\* 1 point

- ☐ ARP discovery
- ☐ ARP reply
- ☒ ARP request
- ☐ ARP broadcast

4. An ARP request is sent out as: \*

1 point

- ☐ a unicast, so only the device with the proper IP address will receive it
- ☒ a broadcast, so all devices on the same network will receive it
- ☐ a broadcast, so all devices on the network and other networks will receive it
- ☐ a unicast, so only the device with the proper MAC address will receive it

5. Host-B receives an ARP request. Host-B will return an ARP Reply if: \*

1 point

- ☒ The IP address in the ARP request matches its own IP address.
- ☐ The IP and MAC addresses in the ARP request matches its own IP and MAC addresses.
- ☐ The MAC address in the ARP request matches its own MAC address.

6. Host-A sends an ARP request and receives an ARP reply from Host-B. What is in the ARP reply that Host-A did not know and needs to communicate with Host-B?

\* 1 point

- ☒ Host B's MAC address
- ☐ Host B's IP and MAC addresses
- ☐ Host B's IP address

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