Congratulations! You passed!

Grade received 100%

Latest Submission Grade 100% To pass 80% or higher

Go to next item

Use the following scenario to answer the 10 questions below:

You have 3 networks (A, B, and C) and 2 routers (Y and Z).

 $Network\,A\,has\,an\,address\,space\,of\,10.1.1.0/24\,and\,is\,connected\,to\,router\,Y, using\,the\,interface\,10.1.1.1.$

Network B has an address space of 192.168.1.0/24 and is connected to Router Y, using the interface 192.168.1.254. Network B is also connected with router Z, using the interface of 192.168.1.1.

 $Network\ C\ has an address\ space\ of\ 172.16.1.0/24\ and\ is\ connected\ to\ router\ Z,\ using\ the\ interface\ 172.16.1.1.\ The\ diagram\ below\ represents\ these\ connections\ and\ interfaces.$



 Network A
 Network B
 Network C

 Address space:
 Address space:
 Address space:

 10 1 1 0/24
 192 168 1 0/24
 172 16 1 0/24

	Address space: 10.1.1.0/24.	192.168.1.0/24	172.16.1.0/24.	
1.	172.16.1.57. On which network is cor Network A Network B Network C	dress of 10.1.1.205, wants to send a packet to pputer 2?	Computer 2, with IP address of	1/1 point
	○ Local network ⊘ Correct			
2.	What information is computer 1 look Destination MAC address Port number TTL value MAC address	ng at in the ARP table on Router Y?		1/1 point
	✓ Correct			
3.	Which layer constructs the IP datagra Network layer Application layer Data layer Physical Layer Correct	m?		1/1 point
4.	What information is in the data paylo	ad of the Ethernet frame?		1/1 point
	● IP datagram ∩ network interface ○ ART message ○ Correct			
5.	When constructing the Ethernet data information needs to be in the destir Computer 2's MAC address Computer 1's MAC address Router Z's MAC address Router Y's MAC address	gram to send the packet from computer 1 to i ation MAC address?	its gateway (Router Y), what	1 / 1 point
	(Correct			

6. Computer 1 on Network A sends a packet to Computer 2 on Network C. What's the first step that Router Z does after receiving the Ethernet frame?

0	Sends an ARP broadcast message	
	Increases the TTL by one	
(Calculates a checksum and compares this checksum with the one in the Ethernet frame header	
_	Checks the destination IP address and changes it to its own	
(Correct	
of :	mputer 1 on network C, with IP address of 172.16.1.57, wants to send a packet to Computer 2, with IP address 172.16.1.133. If the TTL value was set to 64 at the beginning, what is the value of the TTL once it reaches its stination?	1/1 poin
0	65	
0	61	
(0)	64	
0		
0	⊘ Correct	
ado	mputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 10.1.1.8. Taking in consideration that computer 1 is sending a request to a web server on computer 2, ening on port 80, and the source port on computer 1 is 5000, which of the following contains the correct ormation for the first TCP segment of data?	1 / 1 poir
0	Source Port: 8081	
	Destination Port: 50	
	Sequence Number: 4	
_	Acknowledgment Number: 1	
(Source Port: 5000	
	Destination Port: 80	
	Sequence Number: 1	
	Acknowledgment Number: 2	
0	Source Port: 80	
	Destination Port: 5000	
	Sequence Number: 1	
	Acknowledgment Number: 2	
\circ	Source Port: 80	
0		
	Destination Port: 5000	
	Sequence Number: 1	
	Acknowledgment Number: 1	
(Correct	
Co add miii	Imputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 172.16.1.57. Which of the following has the correct IP datagram information for the fields: Version, nimum Header Length, Source IP, and Destination IP? Version: 4 Header Length: 20 Source IP Address: 192.168.1.121 Destination IP address: 172.16.1.57 Version: 6 Header Length: 20 Source IP Address: 8a:1a:2b:3c:4d:5f Destination IP address: 2a:2b:3c:4d:8f	1/1 poin
Coo addo mili	Imputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 172.16.1.57. Which of the following has the correct IP datagram information for the fields: Version, nimum Header Length, Source IP, and Destination IP? Version: 4 Header Length: 20 Source IP Address: 192.168.1.121 Destination IP address: 172.16.1.57 Version: 6 Header Length: 20 Source IP Address: 8a:1a:2b:3c:4d:5f	1/1 poin
Coo addo mili	Imputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 172.16.1.57. Which of the following has the correct IP datagram information for the fields: Version, nimum Header Length, Source IP, and Destination IP? Version: 4 Header Length: 20 Source IP Address: 192.168.1.121 Destination IP address: 172.16.1.57 Version: 6 Header Length: 20 Source IP Address: 8a:1a:2b:3c:4d:5f Destination IP address: 2a:2b:3c:4d:8f	1/1 poin
Coo addo mili	Imputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 172.16.1.57. Which of the following has the correct IP datagram information for the fields: Version, nimum Header Length, Source IP, and Destination IP? Version: 4 Header Length: 20 Source IP Address: 192.168.1.121 Destination IP address: 172.16.1.57 Version: 6 Header Length: 20 Source IP Address: 8a:1a:2b:3c:4d:5f Destination IP address: 2a:2b:3c:4d:8f Version: 5	1/1 point
Coo addo mili	Imputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 172.16.1.57. Which of the following has the correct IP datagram information for the fields: Version, nimum Header Length, Source IP, and Destination IP? Version: 4 Header Length: 20 Source IP Address: 192.168.1.121 Destination IP address: 172.16.1.57 Version: 6 Header Length: 20 Source IP Address: 8a:1a:2b:3c:4d:5f Destination IP address: 2a:2b:3c:4d:8f Version: 5 Header Length: 16	1/1 poin
Coo add mili	Imputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 172.16.1.57. Which of the following has the correct IP datagram information for the fields: Version, nimum Header Length, Source IP, and Destination IP? Version: 4 Header Length: 20 Source IP Address: 192.168.1.121 Destination IP address: 172.16.1.57 Version: 6 Header Length: 20 Source IP Address: 8a:1a:2b:3c:4d:5f Destination IP address: 2a:2b:3c:4d:8f Version: 5 Header Length: 16 Source IP Address: 10.1.1.0/24.	1/1 poin
Coo add mili	Imputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 172.16.1.57. Which of the following has the correct IP datagram information for the fields: Version, nimum Header Length, Source IP, and Destination IP? Version: 4 Header Length: 20 Source IP Address: 192.168.1.121 Destination IP address: 172.16.1.57 Version: 6 Header Length: 20 Source IP Address: 8a:1a:2b:3c:4d:5f Destination IP address: 2a:2b:3c:4d:8f Version: 5 Header Length: 16 Source IP Address: 10.1.1.0/24. Destination IP address: 10.1.1.0/23. Version: 4	1/1 poin
Coo add mili	Imputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 172.16.1.57. Which of the following has the correct IP datagram information for the fields: Version, nimum Header Length, Source IP, and Destination IP? Version: 4 Header Length: 20 Source IP Address: 192.168.1.121 Destination IP address: 172.16.1.57 Version: 6 Header Length: 20 Source IP Address: 8a:1a:2b:3c:4d:5f Destination IP address: 2a:2b:3c:4d:8f Version: 5 Header Length: 16 Source IP Address: 10.1.1.0/24. Destination IP address: 10.1.1.0/24. Destination IP address: 10.1.1.0/23. Version: 4 Header Length: 32	1/1 poin
Coo add mili	Imputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 172.16.1.57. Which of the following has the correct IP datagram information for the fields: Version, nimum Header Length, Source IP, and Destination IP? Version: 4 Header Length: 20 Source IP Address: 192.168.1.121 Destination IP address: 172.16.1.57 Version: 6 Header Length: 20 Source IP Address: 8a:1a:2b:3c:4d:5f Destination IP address: 2a:2b:3c:4d:8f Version: 5 Header Length: 16 Source IP Address: 10.1.1.0/24. Destination IP address: 10.1.1.0/23. Version: 4 Header Length: 32 Source IP Address: 10.1.1.1	1/1 poin
Coo add mili	Imputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 172.16.1.57. Which of the following has the correct IP datagram information for the fields: Version, nimum Header Length, Source IP, and Destination IP? Version: 4 Header Length: 20 Source IP Address: 192.168.1.121 Destination IP address: 172.16.1.57 Version: 6 Header Length: 20 Source IP Address: 8a:1a:2b:3c:4d:5f Destination IP address: 2a:2b:3c:4d:8f Version: 5 Header Length: 16 Source IP Address: 10.1.1.0/24. Destination IP address: 10.1.1.0/24. Destination IP address: 10.1.1.0/23. Version: 4 Header Length: 32	1/1 poir
Co add mili	Imputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 172.16.1.57. Which of the following has the correct IP datagram information for the fields: Version, nimum Header Length, Source IP, and Destination IP? Version: 4 Header Length: 20 Source IP Address: 192.168.1.121 Destination IP address: 172.16.1.57 Version: 6 Header Length: 20 Source IP Address: 8a:1a:2b:3c:4d:5f Destination IP address: 2a:2b:3c:4d:8f Version: 5 Header Length: 16 Source IP Address: 10.1.1.0/24. Destination IP address: 10.1.1.0/23. Version: 4 Header Length: 32 Source IP Address: 10.1.1.1	1/1poin
Co add mili	Imputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 172.16.1.57. Which of the following has the correct IP datagram information for the fields: Version, nimum Header Length, Source IP, and Destination IP? Version: 4 Header Length: 20 Source IP Address: 192.168.1.121 Destination IP address: 172.16.1.57 Version: 6 Header Length: 20 Source IP Address: 8a:1a:2b:3c:4d:5f Destination IP address: 2a:2b:3c:4d:8f Version: 5 Header Length: 16 Source IP Address: 10.1.1.0/24. Destination IP address: 10.1.1.0/23. Version: 4 Header Length: 32 Source IP Address: 10.1.1.1 Destination IP address: 172.16.1.1	1/1 poin
Coaddo min	Imputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 172.16.1.57. Which of the following has the correct IP datagram information for the fields: Version, nimum Header Length, Source IP, and Destination IP? Version: 4 Header Length: 20 Source IP Address: 192.168.1.121 Destination IP address: 172.16.1.57 Version: 6 Header Length: 20 Source IP Address: 8a:1a:2b:3c:4d:5f Destination IP address: 2a:2b:3c:4d:8f Version: 5 Header Length: 16 Source IP Address: 10.1.1.0/24. Destination IP address: 10.1.1.0/23. Version: 4 Header Length: 32 Source IP Address: 10.1.1.1 Destination IP address: 172.16.1.1	1/1 poin
Coaddomiii	Imputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 172.16.1.57. Which of the following has the correct IP datagram information for the fields: Version, nimum Header Length, Source IP, and Destination IP? Version: 4 Header Length: 20 Source IP Address: 192.168.1.121 Destination IP address: 172.16.1.57 Version: 6 Header Length: 20 Source IP Address: 8a:1a:2b:3c:4d:5f Destination IP address: 2a:2b:3c:4d:8f Version: 5 Header Length: 16 Source IP Address: 10.1.1.0/24. Destination IP address: 10.1.1.0/23. Version: 4 Header Length: 32 Source IP Address: 10.1.1.1 Destination IP address: 172.16.1.1 Destination IP address: 172.16.1.1	
Co add mini	Imputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 172.16.1.57. Which of the following has the correct IP datagram information for the fields: Version, nimum Header Length, Source IP, and Destination IP? Version: 4 Header Length: 20 Source IP Address: 192.168.1.121 Destination IP address: 172.16.1.57 Version: 6 Header Length: 20 Source IP Address: 8a:1a:2b:3c:4d:5f Destination IP address: 2a:2b:3c:4d:8f Version: 5 Header Length: 16 Source IP Address: 10.1.1.0/24. Destination IP address: 10.1.1.0/23. Version: 4 Header Length: 32 Source IP Address: 172.16.1.1 Destination IP address: 172.16.1.1 Destination IP address: 172.16.1.1 Correct Layer is responsible for sending ones and zeros through a process called modulation from mputer 1 to Computer 2. Network	
Coo add mini	Imputer 1 on network B, with IP address of 192.168.1.121, wants to send a packet to Computer 2, with IP dress of 172.16.1.57. Which of the following has the correct IP datagram information for the fields: Version, nimum Header Length, Source IP, and Destination IP? Version: 4 Header Length: 20 Source IP Address: 192.168.1.121 Destination IP address: 172.16.1.57 Version: 6 Header Length: 20 Source IP Address: 8a:1a:2b:3c:4d:5f Destination IP address: 2a:2b:3c:4d:8f Version: 5 Header Length: 16 Source IP Address: 10.1.1.0/24. Destination IP address: 10.1.1.0/23. Version: 4 Header Length: 32 Source IP Address: 10.1.1.1 Destination IP address: 172.16.1.1 Destination IP address: 172.16.1.1	

0.