

# CSE421: Assignment 4 - Subnetting

Total points 13/15 

CSE421: Computer Networks; Fall 2025;  
Marks: 15, Deadline: 11:59pm, 26/12/2025

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0 of 0 points

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Consider an IP address of 100.32.65.175 with the subnet mask of 255.255.128.0.

2 of 2  
points

✓ Q1. Identify the network address. \*

1/1

- [100.32.0.0/17](#) 
- [100.32.65.0/17](#)
- [100.32.65.0/18](#)
- [100.32.0.0/16](#)



✓ Q2. Identify the number of hosts possible in this IP block. \*

1/1

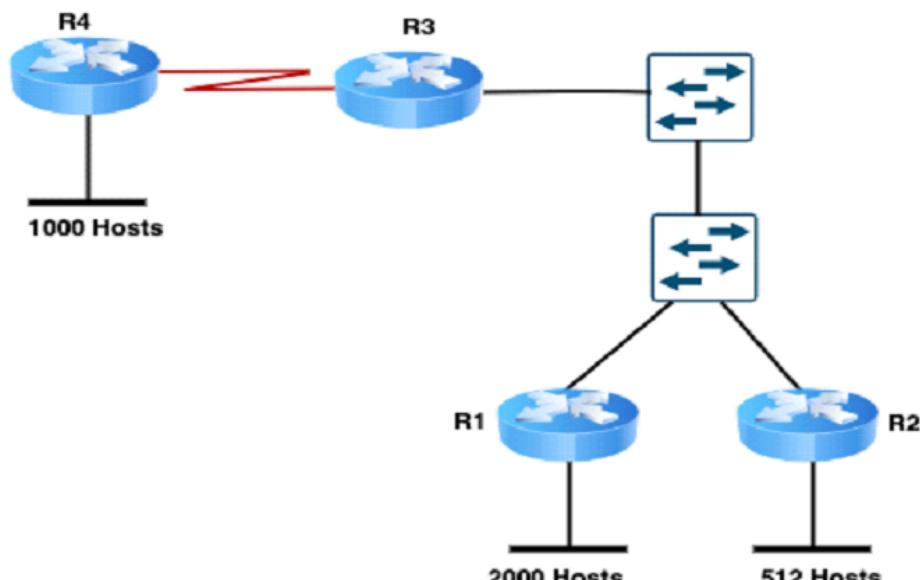
- 32768
- 32766
- 16384
- 16382



Using the network address of (Q1), use VLSM to determine the subnetwork addresses of the networks in the following topology.

11 of  
13  
points

### Topology



✓ Q3. How many subnets are required in the above scenario? \*

1/1

- 4
- 5
- 6
- 8



✓ Q4. What is the Network address of the LAN of size 2000 Hosts? \*

2/2

- 100.32.0.0/17
- 100.32.0.0/21
- 100.32.0.0/18
- 100.32.0.0/22



✓ Q5. What is the Broadcast address of the LAN of size 1000 Hosts? \*

2/2

- 100.32.8.0/22
- 100.32.8.255/22
- 100.32.11.0/22
- 100.32.11.255/22



✓ Q6. What is the First valid Host IP address of the LAN of size 512 Hosts? \*2/2

- 100.32.8.1/22
- 100.32.12.1/22 ✓
- 100.32.16.0/29
- 100.32.16.8/29

✗ Q7. What is the network address of the switched network? \* 0/2

- 100.32.8.0/28
- 100.32.8.0/29
- 100.32.16.0/28 ✗
- 100.32.16.0/29

Correct answer

- 100.32.16.0/29

✓ Q8. How many hosts are required in the switched network? \* 1/1

- 2
- 3 ✓
- 4
- 5



✓ Q9. What is the network address of the WAN network? \*

2/2

- [100.32.16.0/29](#)
- [100.32.16.8/30](#)
- [100.32.0.0/21](#)
- [100.32.16.8/29](#)



✓ Q10. How many hosts are required in the WAN network? \*

1/1

- 2
- 3
- 4
- 5



Upload your calculations for all the questions in pdf format: \*

Assignment4-Su...

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