VLSM
(Variable Length Subnet Mask)

1

Subnet Questions

- The Certkiller Texas branch network is displayed in the following diagram:

- Of the following choices, which IP address should be assigned to the PC host?

- A . 192.168.5.5

- B. 192.168.5.32

- C. 192.168.5.40

- D. 192.168.5.63

- E. 192.168.5.75

Subnet Questions

- The Certkiller Texas branch network is displayed in the following diagram:

Texas

Certkiller.com

E0
192.168.5.33/27

- Of the following choices, which IP address should be assigned to the PC host?

- A . 192.168.5.5

- B. 192.168.5.32

- C. 192.168.5.40

- D. 192.168.5.63

- E. 192.168.5.75

Answer : C

3

If a host on a network has the address 172.16.45.14/30, what is the address of the subnetwork to which this host belongs?

A. 172.16.45.0

B. 172.16.45.4

C. 172.16.45.8

D. 172.16.45.12

E. 172.16.45.18

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If a host on a network has the address 172.16.45.14/30, what is the address of the subnetwork to which this host belongs?

A. 172.16.45.0

B. 172.16.45.4

C. 172.16.45.8

D. 172.16.45.12

E. 172.16.45.18

Answer : D

What is the IP address range for the first octet in a class B address, in binary form?

A. 10000000-11101111

B. 11000000-11101111

C. 10000000-10111111

D. 10000000-11111111

E. 11000000-10111111

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A. 10000000-11101111

B. 11000000-11101111

C. 10000000-10111111

D. 10000000-11111111

E. 11000000-10111111

Answer : C

Which two of the addresses below are available for host addresses on the subnet 192.168.15.19/28?

 (Select two answer choices)

A. 192.168.15.17

B. 192.168.15.14

C. 192.168.15.29

D. 192.168.15.16

E. 192.168.15.31

F. None of the above

Which two of the addresses below are available for host addresses on the subnet 192.168.15.19/28?

(Select two answer choices)

A. 192.168.15.17

B. 192.168.15.14

C. 192.168.15.29

D. 192.168.15.16

E. 192.168.15.31

F. None of the above

Answer : A,C

You have a Class C network, and you need ten subnets. You wish to have as many addresses available for hosts as possible. Which one of the following subnet masks should you use?

A. 255.255.255.192

B. 255.255.255.224

C. 255.255.255.240

D. 255.255.255.248

E. None of the above

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A. 255.255.255.192

B. 255.255.255.224

C. 255.255.255.240

D. 255.255.255.248

E. None of the above

Answer : C

How many subnetworks and hosts are available per subnet if you apply a /28 mask to the 210.10.2.0 class C network?

A. 30 networks and 6 hosts.

B. 6 networks and 30 hosts.

C. 8 networks and 32 hosts.

D. 32 networks and 18 hosts.

E. 16 networks and 14 hosts.

F. None of the above

How many subnetworks and hosts are available per subnet if you apply a /28 mask to the 210.10.2.0 class C network?

A. 30 networks and 6 hosts.

B. 6 networks and 30 hosts.

C. 8 networks and 32 hosts.

D. 32 networks and 18 hosts.

E. 16 networks and 14 hosts.

F. None of the above

Answer : E

The Certkiller network was assigned the Class C network 199.166.131.0 from the ISP. If the administrator at Certkiller were to subnet this class C network using the 255.255.255.224 subnet mask, how may hosts will they be able to support on each subnet?

A. 14

B. 16

C. 30

D. 32

E. 62

F. 64

The Certkiller network was assigned the Class C network 199.166.131.0 from the ISP. If the administrator at Certkiller were to subnet this class C network using the 255.255.255.224 subnet mask, how may hosts will they be able to support on each subnet?

A. 14

B. 16

C. 30

D. 32

E. 62

F. 64

Answer : C

What is the subnet for the host IP address 172.16.210.0/22?

A. 172.16.42.0

B. 172.16.107.0

C. 172.16.208.0

D. 172.16.252.0

E. 172.16.254.0

F. None of the above

What is the subnet for the host IP address 172.16.210.0/22?

A. 172.16.42.0

B. 172.16.107.0

C. 172.16.208.0

D. 172.16.252.0

E. 172.16.254.0

F. None of the above

Answer : C

What is the subnet for the host IP address 201.100.5.68/28?

A. 201.100.5.0

B. 201.100.5.32

C. 201.100.5.64

D. 201.100.5.65

E. 201.100.5.31

F. 201.100.5.1

What is the subnet for the host IP address 201.100.5.68/28?

A. 201.100.5.0

B. 201.100.5.32

C. 201.100.5.64

D. 201.100.5.65

E. 201.100.5.31

F. 201.100.5.1

Answer : C

Which one of the binary bit patterns below denotes a Class B address?

A. 0xxxxxxx

B. 10xxxxxx

C. 110xxxxx

D. 1110xxxx

E. 11110xxx

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Which one of the binary bit patterns below denotes a Class B address?

A. 0xxxxxxx

B. 10xxxxxx

C. 110xxxxx

D. 1110xxxx

E. 11110xxx

Answer : B

Your network uses the172.12.0.0 class B address. You need to support 459 hosts per subnet, while accommodating the maximum number of subnets. Which mask would you use?

A. 255.255.0.0.

B. 255.255.128.0.

C. 255.255.224.0.

D. 255.255.254.0.

Your network uses the172.12.0.0 class B address. You need to support 459 hosts per subnet, while accommodating the maximum number of subnets. Which mask would you use?

A. 255.255.0.0.

B. 255.255.128.0.

C. 255.255.224.0.

D. 255.255.254.0.

Answer :D

Using a subnet mask of 255.255.255.224, which of the IP addresses below can you assign to the hosts on this subnet? (Select all that apply)

A. 16.23.118.63

B. 87.45.16.159

C. 92.11.178.93

D. 134.178.18.56

E. 192.168.16.87

F. 217.168.166.192

**subnet (0, 32, 64, 96, 128, 160, 192, 224)
and the broadcast address (31, 63, 95, 127, 159, 191, 223).**

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F. 217.168.166.192

**subnet (0, 32, 64, 96, 128, 160, 192, 224)
and the broadcast address (31, 63, 95, 127, 159, 191, 223).**

Answer : C,D,E