Subnetting Scenarios

Scenario #1: What is the broadcast address for 223.209.177.136/29 network?

Scenario #2: What is the network ID for 221.230.76.99/27?

A.221.230.76.88/27

>B.221.230.76.96/27

C.221.230.76.96/26

D.221.230.78.96/27

Scenario #3: You have 209.51.44.0/24, you need to subnet into 5 networks, what is your new subnet mask?

A.255.255.255.252

B.225.255.255.240

C.255.255.255.224

D.255.255.255.192

Scenario #4: You want to convert 192.168.10.0/24 to binary. What represents that conversion?

X A.10100000.10101000.00001010.00000000

B.11000000.11100000.00001010.00000000

C.11000000.10101000.00001100.00000000

D.11000000.10101000.00001010.00000000

Bonus:

Scenario #5: 191.199.67.97 255.255.248.0 is a host in which network?

A.191.199.64.0 255.255.248.0

B.191.199.0.0 255.255.248.0

C.191.199.32.0 255.255.248.0

D.191.199.16.0 255.255.248.0

Scenario #6: What is the broadcast ID for 191.199.67.97 255.255.248.0?

A.191.199.64.255 255.255.248.0

B.191.199.71.255 255.255.248.0

C.191.199.97.255.255.248.0

D.191.199.67.97 255.255.248.0

Scenario #7: how many hosts can 191.199.67.97/21 support?

A.2047

B.2048

C.2046

D.2045

Scenario #8: What is the subnet mask and CIDR notation network that only needs 2 hosts per network?

A.255.255.255.253 and /30

B.255.255.255.252 and /31

C.255.255.255.254 and /31

D.255.255.255.252 and /30