

TCP/IP Quiz #2: Binary & Network Address Range Practice

1. Using the conversion table, convert the following from decimal into binary and then into hexadecimal.

Number to convert	128 2^7 7	64 2^6 6	32 2^5 5	16 2^4 4	8 2^3 3	4 2^2 2	2 2^1 1	1 2^0 0
162								
199								
210								
78								
53								

2. If you have a host with address 192.168.2.76 and your subnet mask is 255.255.255.192, determine the four items concerning your network

a. Network _____ . _____ . _____ . _____

b. First Host _____ . _____ . _____ . _____

c. Last Host _____ . _____ . _____ . _____

d. Broadcast Address _____ . _____ . _____ . _____

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3. The following table lists some CIDR Blocks. Determine the subnet mask and address range for each CIDR block.

Block Range	Subnet Mask	Range of Addresses
140.44.96.0/19		NET FH LH BC
140.44.192.160/28		NET FH LH BC
200.200.200.40/29		NET FH LH BC
202.202.200.144/30		NET FH LH BC

4. Question? How would you figure out if two IP addresses are in the same CIDR block?