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In Class Assignment #9

Subnetting Practice

Convert the following decimals to binary: 1 point each

68: **01000100** 78: **01001110** 88: **01011000** 98: **01100010**

Convert the following binary to decimal:

11110101: 245 11101011: 235 11110010: 242 10001111: 143

The standard subnet mask for a class A network is: 255 • 0 • 0 • 0

The standard subnet mask for a class B network is: 255 • 255 • 0 • 0

The standard subnet mask for a class C network is: 255 • 255 • 255 • 0

The IP address 127.140.14.4 is part of a class A network.

The IP address 128.140.14.0 is part of a class B network.

The IP address 200.140.14.4 is part of a class C network.

Give the IP address 192.192.192.129 with a subnet mask of 255.255.255.224; how many bits were borrowed to create the sub-network? 3. How many subnetworks ranges are there 8 and how many hosts in each range 32?

What is the Network Address 192 • 192 • 192 • 128

Give the IP address 192.192.192.129 with a subnet mask of 255.255.255.254; how many bits were borrowed to create the sub-network? 7. How many subnetworks ranges are there 128 and how many hosts in each range 2?

What is the Network Address 192 • 192 • 192 • 128

Give the IP address 192.192.192.129 with a subnet mask of 255.255.255.240; how many bits were borrowed to create the sub-network? 4. How many subnetworks ranges are there 16 and how many hosts in each range 16?

What is the Network Address 192 • 192 • 192 • 128

Give the IP address 190.150.150.150 with a subnet mask of 255.255.255.0; how many bits were borrowed to create the sub-network? 8. How many subnetworks ranges are there 256 and how many hosts in each range 256?

What is the Network Address 190 • 150 • 150 • 0

Give the IP address 190.150.150.150 with a subnet mask of 255.255.255.192; how many bits were borrowed to create the sub-network? 10. How many subnetworks ranges are there **1024** and how many hosts in each range **64**

What is the Network Address 190 • 150 • 150 • 128