**Custom Subnet Masks**

Problem 7:

Address class: B

Default subnet mask: 255.255.0.0

Custom subnet mask: 255.255.255.**224**

Total number of subnets: 2048

Total number of host addresses: 32

Number of usable addresses: 30

Number of bits borrowed: 11

128 + 64 + 32 = **224**

Problem 15:

Address class: B

Default subnet mask: 255.255.0.0

Custom subnet mask: 255.255.255.192

Total number of subnets: 1024

Total number of host addresses: 64

Number of usable addresses: 62

Number of bits borrowed: 10

**Subnetting**

Problem 11

Address class: B

Default subnet mask: 255.255.0.0

Custom subnet mask: 255.255.224.0

Total number of subnets: 8

Total number of host addresses: 8192

Number of usable addresses: 8190

Number of bits borrowed: 3

What is the 2nd subnet range?:

What is the subnet number for the 2nd subnet?:

What is the subnet broadcast address for the 4th subnet?:

What are the assignable addresses for the 3rd subnet?:

Problem 12