

Name: _____

Class B Subnet Exercise

Utilize this template to develop your own IP Addressing scheme for each class B network below. The IP address of the network and the subnet sizes are provided as a starting point.

Problem # 1 – 130.6.0.0 – Subnet sizes are 8190, 16382, and 32766

Subnet Size (# of Host)	Network Address	Subnet Mask	IP Range	Broadcast Address
32,766	130.6.0.0	/17	0.1-127.254	127.255
16,382				191.255
8,190				

Problem # 2 – 152.168.0.0 – Subnet sizes are 2046, 4094, 8190, and 16382

Subnet Size (# of Host)	Network Address	Subnet Mask	IP Range	Broadcast Address
16,382				
8,190				
4,094				
2,046	152.168.112.0	/21	112.1-119.254	119.255

Problem # 3 – 171.9.0.0 – Subnet sizes are 254, 510, 1022, 2046, 4094, and 8190

Subnet Size (# of Host)	Network Address	Subnet Mask	IP Range	Broadcast Address
8,190				
4,094				
2,046				
1,022	171.9.56.0	/22	56.1-59.254	59.255
510				
254				

Problem # 4 – Make up your own given address and create 5 subnets.

Subnet Size (# of Host)	Network Address	Subnet Mask	IP Range	Broadcast Address