

Custom Subnet Masks

Problem 15

Number of needed usable hosts **50**

Network Address **172.59.0.0**

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**

Show your work for Problem 15 in the space below.

Num of Host:	2	4	6	8	16	32	64	128	512	1024	2048	4096	8192	16384	32768	65536
Number of subnets:	2	4	6	8	16	32	64	128	512	1024	2048	4096	8192	16384	32768	65536
Binary value:	128	64	32	16	8	4	2	1	128	64	32	16	8	4	2	1
172.59.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10 bits borrowed															

Custom subnet mask:

128	128
64	+ 64
32	192
16	
8	
4	
+ 2	
255	

Total Host = 64
 - 2
 Usable = 62