

IP Addressing #7

Given the IP address 54.0.0.0 calculate the following information

1. What class address is this? _____
2. If no subnetting is done, how many usable host addresses will you have? _____
3. How many bits are used for the network portion of this address? _____
4. How many bits are used for the host portion of this address? _____
5. What is the maximum number of bits that can be borrowed for subnetting? _____

Assuming 3 bits are borrowed to create subnets, answer the following questions.

6. What is the subnet mask? _____
7. How many usable subnets are created? _____
8. How many usable host on each subnet? _____
9. How many total usable host are created? _____
10. How many usable host addresses are lost due to subnetting? _____

Complete the chart below (borrowing 3 bits)

Subnet #	Subnet Address	Host Range		Broadcast Address
		Host From	Host To	
0	54.0.0.0			
1				
2				
3				
4				
5				
6				
7				