IP Addressing #4

Subnet the following class "C" address and apply it to the attached network topology.

201.5.1.0

There are 8 networks in the attached topology, but you need to allow for future growth in the network. It projected in the future that you will need 14 networks.			
How many bits will you need to borrow?			
What is the subnet mask?			
How many usable subnets will be created?			
How many usable host will created on each subnet?			
<u>LAB-A</u>			
Ethernet 0 is on subnet 1			
What is the network number of the subnet 1?			
What is the usable range of host on the subnet 1?			
What is the broadcast number of the subnet 1?			
Ethernet 1 is on subnet 2			
What is the network number of the subnet 2?			
What is the usable range of host on the subnet 2?			
What is the broadcast number of the subnet 2?			
Serial 0 is on subnet 3			
What is the network number of the subnet 3?			
What is the usable range of host on the subnet 3?			
What is the broadcast number of the subnet 3?			
<u>LAB-B</u>			
Ethernet 0 is on subnet 4			
What is the network number of the subnet 4?			
What is the usable range of host on the subnet 4?			
What is the broadcast number of the subnet 4?			
Serial 0 is on subnet 5			
What is the network number of the subnet 5?			
What is the usable range of host on the subnet 5?			
What is the broadcast number of the subnet 5?			
Serial 1 is on subnet 3 (attached to S0 on LAB-A)			
LAB-C			
Ethernet 0 is on subnet 6			
What is the network number of the subnet 6?			
What is the usable range of host on the subnet 6?			
What is the broadcast number of the subnet 6?			
Serial U.Is on supple 7			
Serial 0 is on subnet 7 What is the network number of the subnet 7?			
What is the network number of the subnet 7?			

LAB-D

Ethernet 0 is on subnet 8

What is the broadcast number of the subnet 8? _____

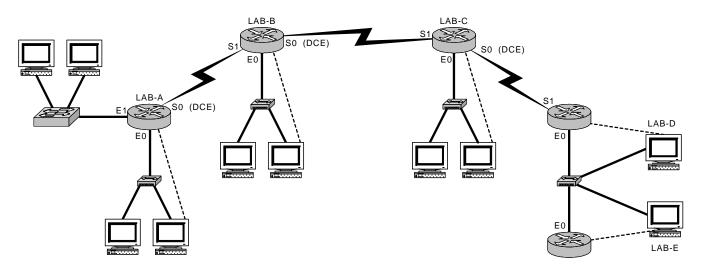
Serial 1 is on subnet 7 (attached to S0 on LAB-C)

LAB-E

Ethernet 0 shares subnet 8 with LAB-D

Apply the address scheme that you calculated. Assign each interface on the router an IP address, beginning with the first usable host address.

Semester 2 - Lab Configuration



Router Name - LAB-A Router Type - 2514	Router Name - LAB-C Router Type - 2503	Router Name - LAB-E Router Type - 2501	Legend
S0 = E0 = E1 =	S0 = S1 = E0 =	E0 = SM =	Router
SM =	SM =		Hub
			Switch
Router Name - LAB-B Router Type - 2503	Router Name - LAB-D Router Type - 2501	Secret Password = class Console Password = cisco	Console Cable
S0 = S1 =	S1 = E0 =	VTY Password = cisco	Ethernet
E0 = SM =	SM =		Serial