11.7.5

Questions:  
a. Based on the topology, how many subnets are needed?  
5

b. How many bits must be borrowed to support the number of subnets in the topology table?  
3

c. How many subnets does this create?  
8

d. How many usable hosts does this create per subnet?  
30

Assign Subnet 0 to the LAN connected to the GigabitEthernet 0/0 interface of R1: 192.168.100.0 /27

Assign Subnet 1 to the LAN connected to the GigabitEthernet 0/1 interface of R1: 192.168.100.32 /27

Assign Subnet 2 to the LAN connected to the GigabitEthernet 0/0 interface of R2: 192.168.100.64 /27

Assign Subnet 3 to the LAN connected to the GigabitEthernet 0/1 interface of R2: 192.168.100.96 /27

Assign Subnet 4 to the WAN link between R1 to R2: 192.168.100.128 /27