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Suppose your organization uses the Class B network ID of 172.20.0.0 for its entire network and wants to create 15 subnets. Answer the following questions:

1. For the subnets, how many bits must be borrowed from the host address bits?

   A= 4 bits

2. What is the subnet mask for these subnets, written in decimal?

   A= 255.255.240.0

3. What is the magic number you can use to calculate the network IDs?

   A= 16

4. What is the CIDR notation for the first subnet's network ID? For the second subnet's network ID? For the last subnet's network ID?

   A= 172.20.0.1

   A= 172.20.0.5

   A = 172.20.15.254

5. How many host addresses are possible in each subnet?

   14

6. What is the range of host addresses for the first subnet? For the second subnet? For the last subnet?

   A= 4094

   A= 8188

   A= 57316