# IP Addressing #1

1.  **Subnet the network number 205 . 26 . 91 . 0  with 3 bits of  subnetting (borrow 3 bits).**

    A.  What is the network ID of first usable subnet?

    B.  What is the network ID of last usable subnet?

    C.  What is the subnet mask?

2.  **Subnet the network number 223 . 212 . 56 . 0  with 5 bits subnetting.**

    A.  How many sub-networks are created?

    B.  What is the network ID of subnet 6?

    C.  How many usable host per subnet?

    D.  What is the subnet mask?

3.  **Subnet the network number 156 . 121 . 0 . 0  into 14 sub-networks.**

    A.  What is the network ID of subnet 5?

    B.  How many usable host per subnet?

    C.  What is the subnet mask?

4.  **Subnet the network number 184 . 67 . 0 . 0  to allow for 8000 users on each network.**

    A.  How many usable networks are created?

    B.  What is the host range for each of the sub-networks?

    _____   _____   _____

    _____   _____   _____

    _____   _____   _____

    _____   _____   _____

    _____   _____   _____

    C.  What is the subnet mask?

5.  **Given the network number 128 . 0 . 0 . 0  allow for 250 users on each network.**

    A.  How many networks are created?

    B.  What is the first usable host address?

    C.  What is the subnet mask?