Name: <u>Bebie Grace Balbuena</u>

Partner 1 - 172.11.192.0/19

Step 1: Class of IP :   **172.11.110 00000.00000000**
Step 2:   Requirements :   **13 Network**
Step 3:   Borrowed Bits: $2^4-2 \Rightarrow 13 = 16-2 \Rightarrow 13 = 14$ True
Step 4: New Subnet mask :   **/23 255.255.254.0**
Step 5:   Range :   **256 - 255 = 1**
Step 6: Plot the Table: **In excel**

Partner 2 - 12.51.224.0/22 - creating 30 subnets

Step 1: Class of IP :   **12.15.111000 00.00000000**
Step 2: Requirements: **30 Subnets**
Step 3: Borrowed Bits: $2^5-2 \Rightarrow 30 = 32-2 \Rightarrow 32 = 30$ True
Step 4: New Subnet Mask: **/27 255.255.255.224**
Step 5: Range: **256 - 224 = 32**
Step 6: Plot the Table: **In Excel**