"FOLDING THE PAPER" SUBNETTING METHOD

The 'paper' is your one network before subnetting.

1. Identify the class of IP address and the default mask
2. Determine the number of 'folds' needed to achieve the required number of subnets
3. Each fold doubles the number of networks, but reduces the available address space
4. The number of 'folds' equals the number of host bits you need to borrow
5. Determine the new mask by adding the number of borrowed bits to the given mask
6. Identify the 'interesting octet,' the one where the numbers will be incrementing (or octets if borrowed bits spans multiple octets)
7. The decimal weight of the rightmost borrowed bit is the network increment
8. Use the increment to list the newly created subnets, valid ranges, and broadcast addresses