Calculating Subnets

128 | 64 | 32 | 16 | 8 | 4 | 2 | 1

Calculate Existing Subnet Addresses:

P = **Prefix** | N = **Network** | S = **Subnet** | H = **Host**

STEPS:

1. Convert the mask to prefix format (P)
2. Determine (N) based on class
3. Calculate $S = P - N$
4. Calculate $H = 32 - P$
5. Calculate hosts/subnet: $2^H - 2$
6. Calculate number of subnets: 2^S

BOOK EXAMPLES:

81.4.5   255.255.0.0

200.1.1.1   255.255.255.252

130.4.102.1   255.255.255.0