

Just to remind you,

Subnet Mask/Prefix

Class A: 1-127; 255.0.0.0/8

Class B: 128-191; 255.255.0.0/16

Class C: 192-223; 255.255.255.0/24

Lets consider we have an IP address: 192.168.1.0/24

IP Address	192	168	1	00000000
Subnet Mask	255	255	255	00000000
	Network portion			Host portion

Now let's borrow 1 bit from host portion:

192.168.1.00000000

Now this 1 bit can represent two values, either 0 or 1

So we will get two subnets:

Subnet 0: 192.168.1.00000000/25

Subnet 1: 192.168.1.10000000/25

Subnet Mask: 255.255.255. 10000000 (128)/25