

(255.255.255.0)

199.1.1.100

255.255.255.224

8 + 8 + 8 + 3

/27

C<sub>ans</sub> = C

N = 24 | H<sub>C</sub> = 8

P = 27

S = 3

H = 8 - 3 = 5

$2^H - 2 =$

$2^5 - 2 =$  30

$2^S = 2^3 =$  8

Binary Mask Octet	Decimal Equivalent	Number of Binary 1s
00000000	0	0
10000000	128	1
11000000	192	2
11100000	224	3
11110000	240	4
11111000	248	5
11111100	252	6
11111110	254	7
11111111	255	8

10 199.1.1.100

M 255.255.255.0

Class

IP = ?

N = ?

S = ?

H = ?

$2^S = ?$

$$2^4 - 2 = ?$$

IP 130. 4. 102. 1 255. 255. 0. 0

Mask 255. 255. 255. 0 ✓ /P

↙  
classless?? ~~classful??~~

B class

↳ subnet?

How?

$$P = 24$$

$$N = 16$$

$$S = 8$$

$$H = 16 - 8 = 8$$

$$\# 2^8 = 2^8 = 256$$

$$\# 2^8 - 2 \Rightarrow 2^8 = 254$$

Binary Mask Octet	Decimal Equiva
00000000	0
10000000	128
11000000	192
11100000	224
11110000	240
11111000	248
11111100	252
11111110	254