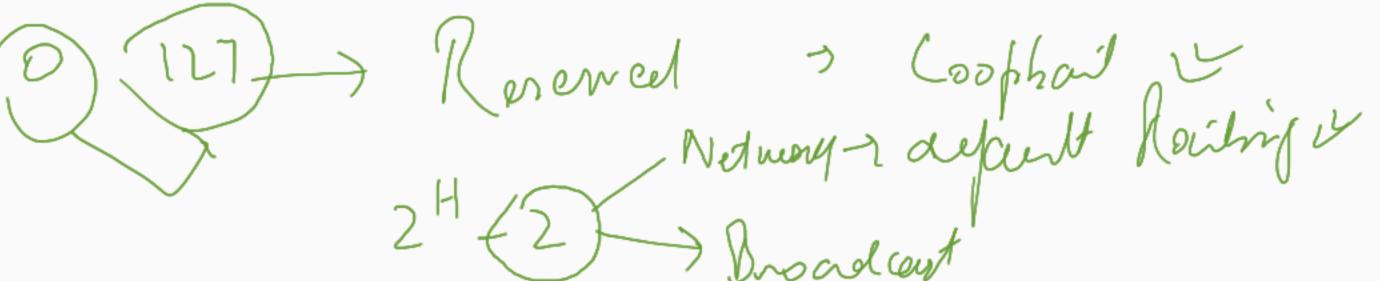
1P -) Clawfull L -> Clawles L

	Class	First Octet Values	Purpose
	A	1–126	Unicast (large networks)
	'B	128–191	Unicast (medium-sized networks)
/	C C	192-223 /	Unicast (small networks)
	D	224–239	Multicast
	Е	240–255	Reserved (formerly experimental)

1200.1.1

192].167.0-)~C

32



	Class A	Class B	Class C
First octet range	1–126	128–191	192-223
Valid network numbers	1.0.0.0-126.0.0.0	128.0.0.0-191.255.0.0	192.0.0.0-223.255.255.0
Total networks	$2^{7} - 2 = 126$	214 = 16,384 - 2	<b>2</b> <sup>21</sup> = 2,097,152 ~ 3
Hosts per network	224)- 2	216 - 2	28-2
Octets (bits) in network part	1 (8)	2 (16)	3 (24)
Octets (bits) in host part	3 (24)	2 (16)	1 (8)
Default mask	255.0.0.0	255.255.0.0	255.255.255.0

28

24

3(1) 3/

246

111/11/11

- *n* indicates a bit used for the network ID.
- H indicates a bit used for the host ID.
- X indicates a bit without a specified purpose.

# Class A

## Class B

#### Class C

# Class D

## Class E

240.	0.	0.	0	=	11110000.00000000.00000000.00000000
255.	55.2	55.2	55	=	11111111.11111111.111111111111111111111
$\bigcup$					1111XXXX.XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

192-223

0-127

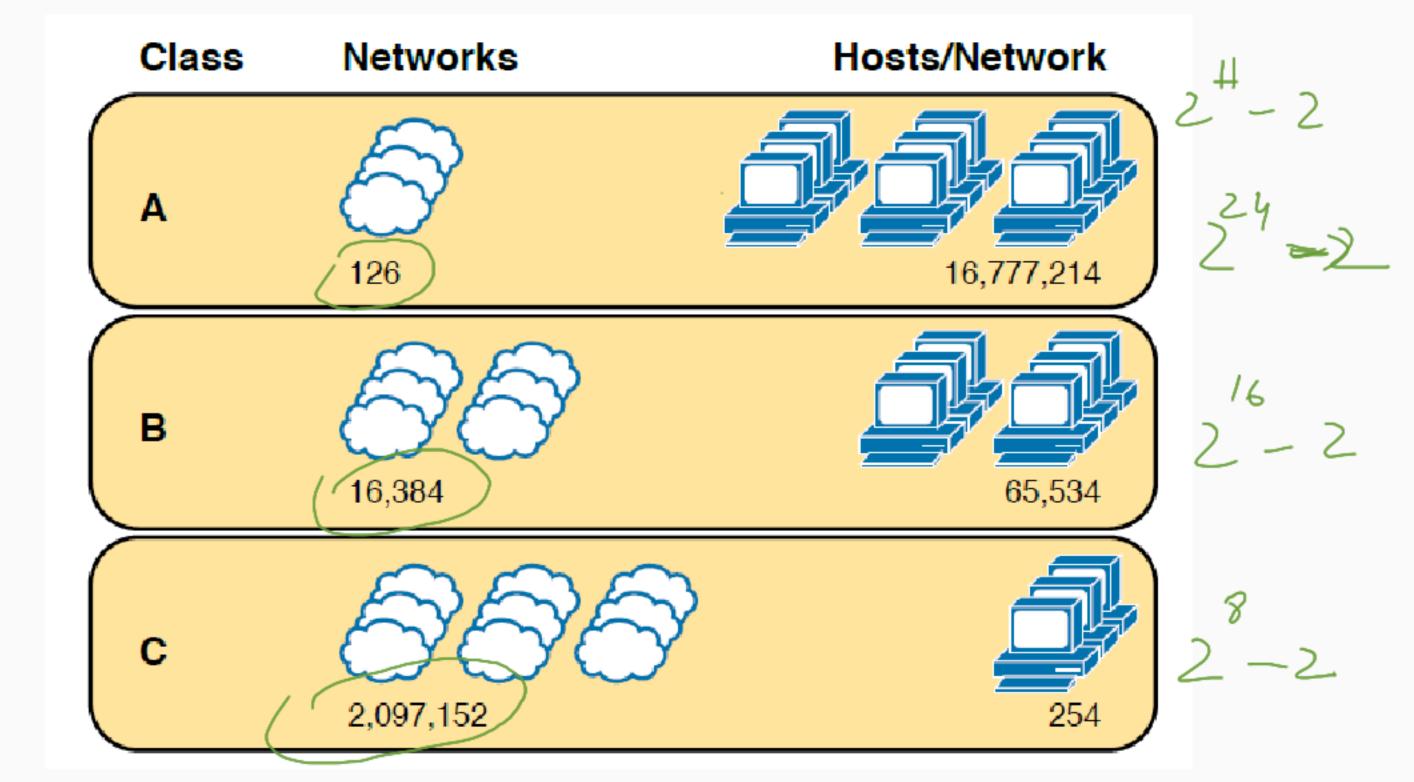
12-8-191

240-255

Most Most I Coop Significant Bid 11276y 32 14 8 9 2 1 Binay -> Dec????

Class 4 =) MSB =10 10000000 =) [0.0.0.0 1 121.255.255.255 H2X = 24

0 -> 127

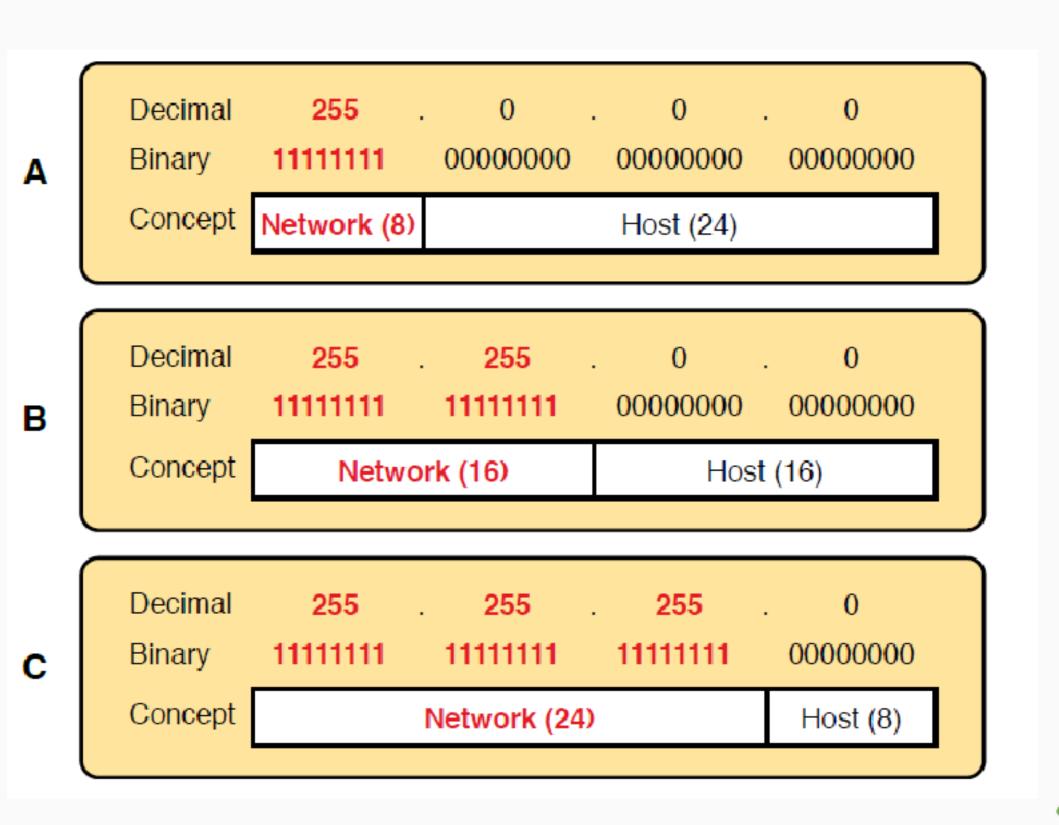


7-2

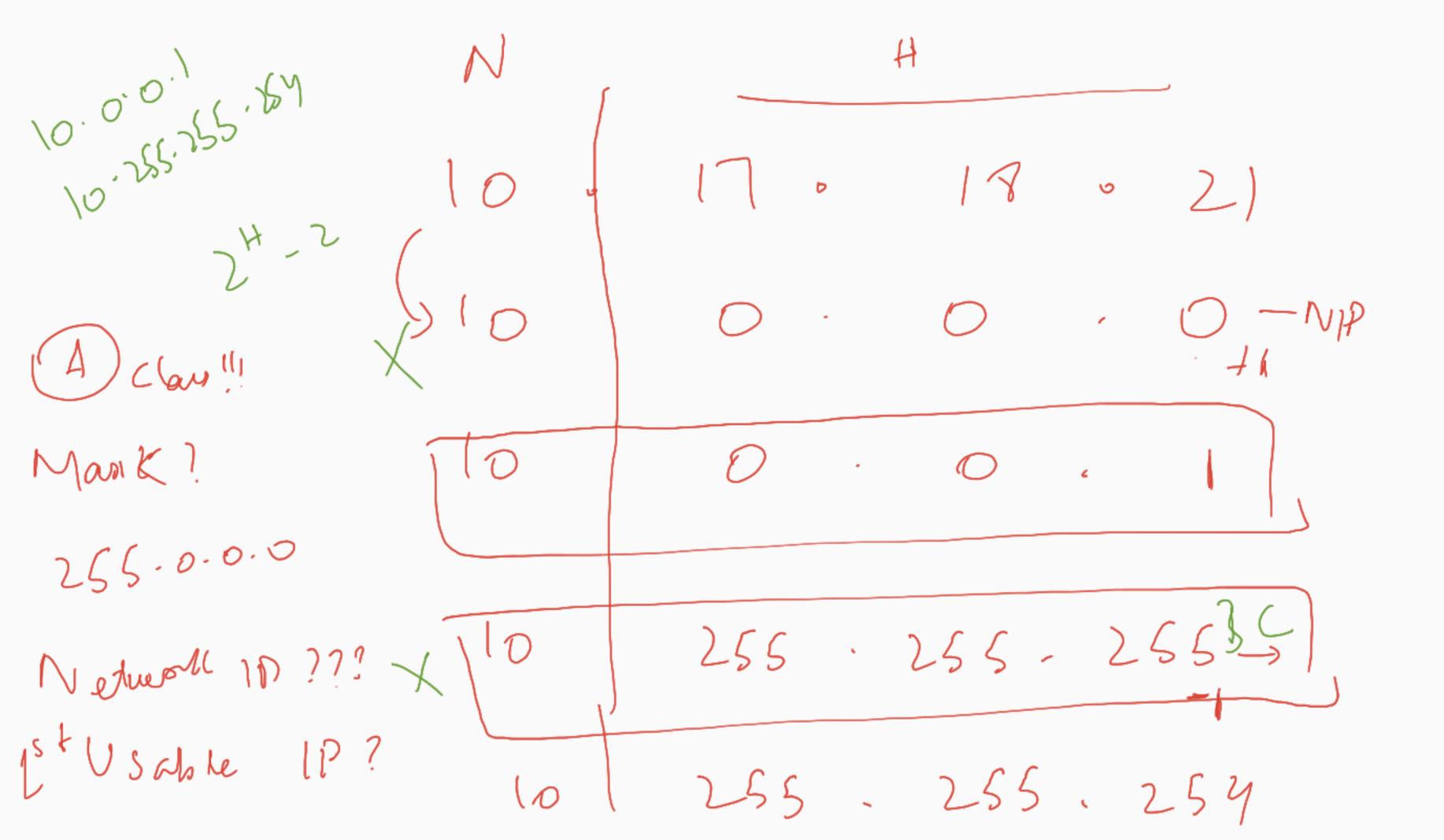
24

21

32 -> 1D) Prefix Netwearl + Host Network (8) A Host (24) В Network (16) Host (16) C Host (8) Network (24)



1-126 [28 -)



172.16.0-0 72-16.0.) ~ 172.16.10.5 717,16.255.259 J Mark? 255.255.000 /16 > Prediz N.10 7 172.16.0.0 B. 17? 172 16.255,255 F.10 ~ 172.16.0-1 L-172 172,16.255.259

(192.168.1.15 Man ( 255.255.255.0 192,168,7.6 192.168.1,255 192-168.1-1 (92.168.1.254

Classfull  $P \rightarrow A, B, C$ Classfull  $P \rightarrow A$ 

1.1.0

y Mask 1 D 255.0-0.6 (DDN) 18 2 255. 255. 0.5 Cppw) 255. 255. 255-6 (non)

255.0.0.0 

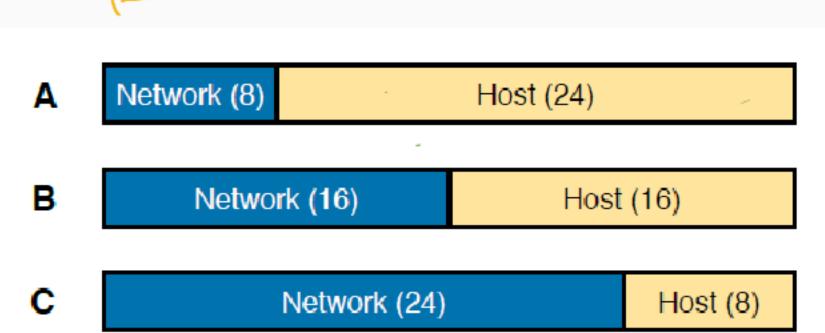
111111111 -111000000 - - - ...

Binary Mask Octet	Decimal Equivalent	Number of Binary 1s	
00000000	0	0	
10000000	128	1	
11000000	192	2	
11100000	224	3	
<b>1111</b> 0000	240	4	
11111000 5	248	5	
11111100	252	6	
11111110	254	7	
11111111	255	8	
'	•	. '	

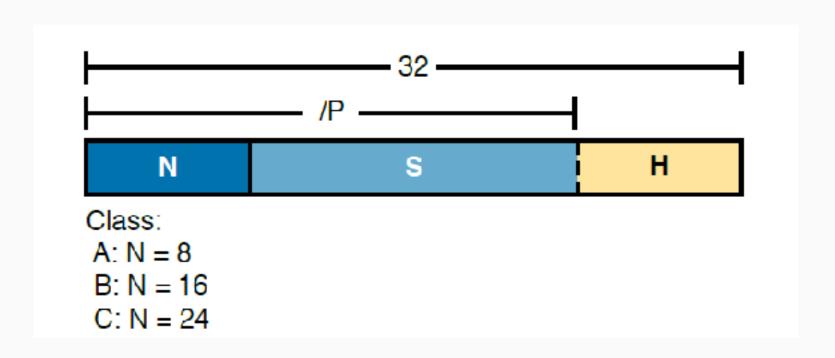
225.0.0 L 255.25.--L

255.224,0.6

255,248.0.00 255-(255.)0.6 32



=) clariful



CIDR

2) don low

$$10 = 2 \quad 199.1.100$$

$$M = 2 \quad 255.255.255.224$$

Binary Mask Octet	Decimal Equivalent	Number of Binary 1s
00000000	0	0
10000000	128	1
11000000	192	2
<b>111</b> 00000	224	3
<b>1111</b> 0000	240	4
<b>11111</b> 000	248	5
<b>11111</b> 00	252	6
<b>111111</b> 0	254	7
11111111	255	8