

IP Address Classes

8 bits

8 bits

8 bits

Class A: Network Host Host Host

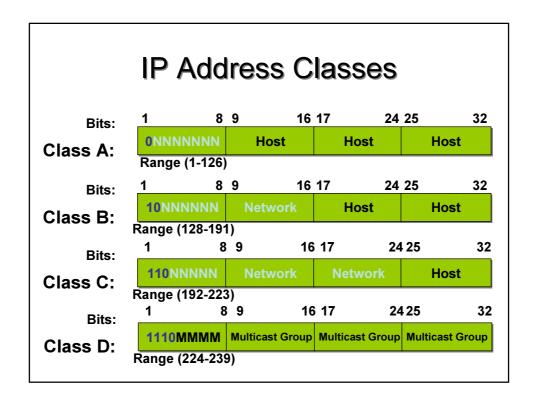
8 bits

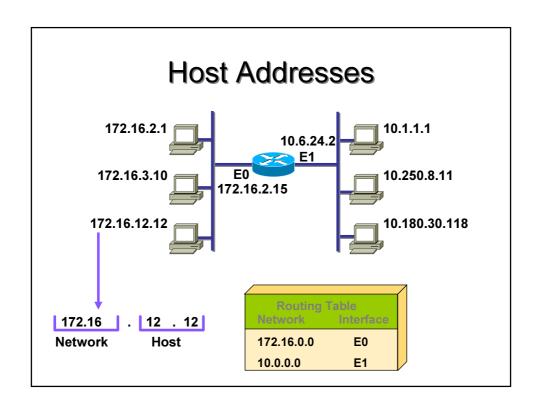
Class B: Network Network Host Host

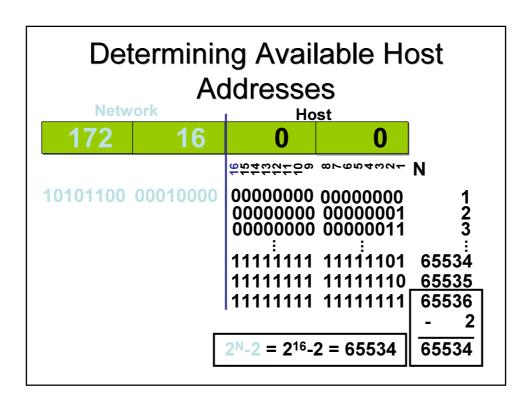
Class C: Network Network Host

• Class D: Multicast

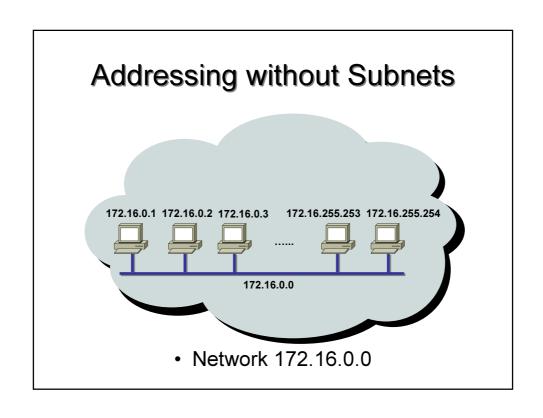
• Class E: Research

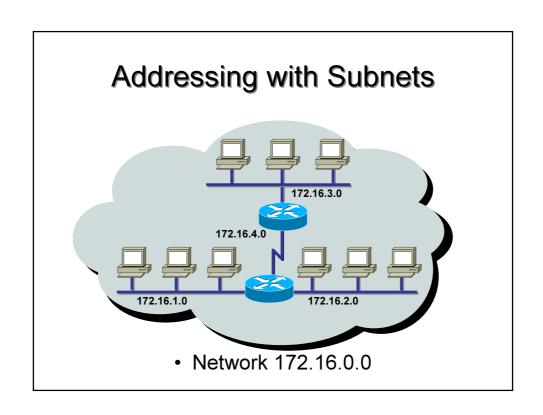


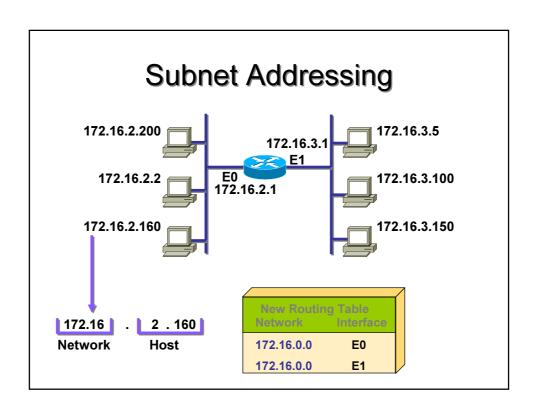


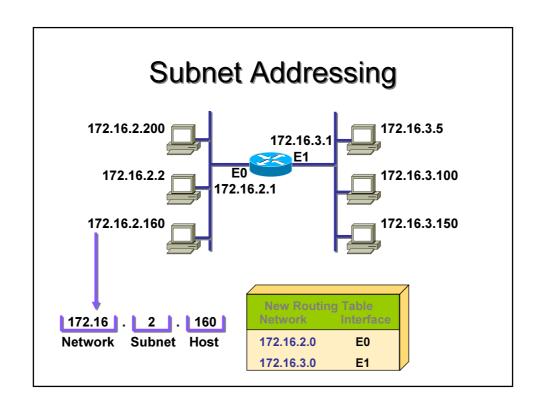


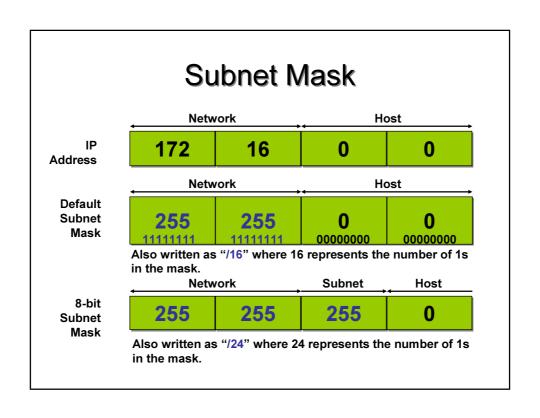
IP Address Classes Exercise | Married | Marri





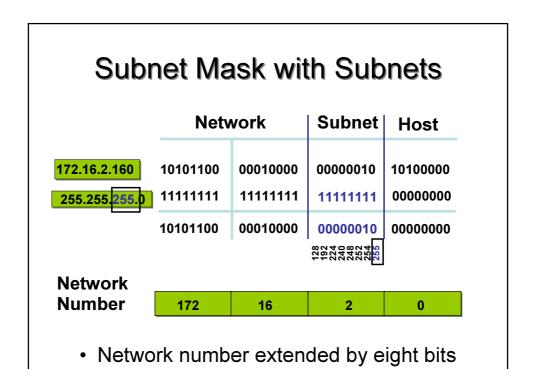


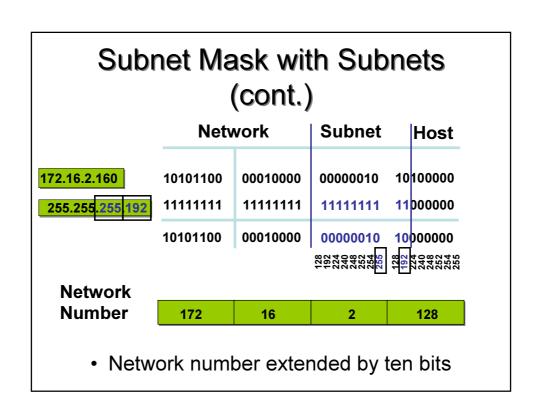




ט	ec	ıma		_	uıv tte			S C	of Bit
128	64 	32	16 	8	4	2	1		
1	0	0	0	0	0	0	0	=	128
1	1	0	0	0	0	0	0	=	192
1	1	1	0	0	0	0	0	=	224
1	1	1	1	0	0	0	0	=	240
1	1	1	1	1	0	0	0	=	248
1	1	1	1	1	1	0	0	=	252
1	1	1	1	1	1	1	0	=	254
1	1	1	1	1	1	1	1	=	255

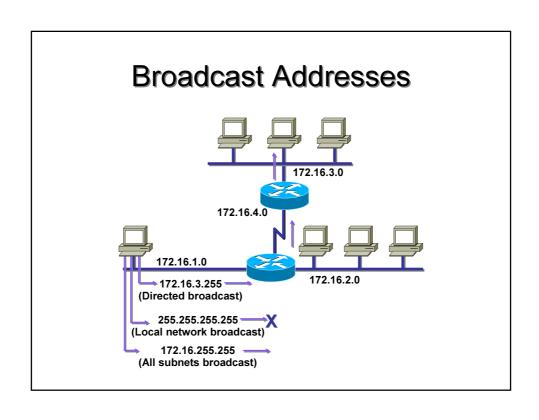
	Netv	work	Host		
72.16.2.160	10101100	00010000	00000010	10100000	
255.255.0.0	11111111	11111111	00000000	00000000	
	10101100	00010000	00000000	00000000	
etwork	172	16	0	0	

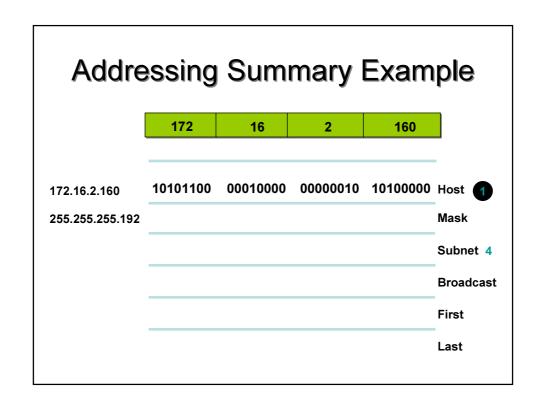


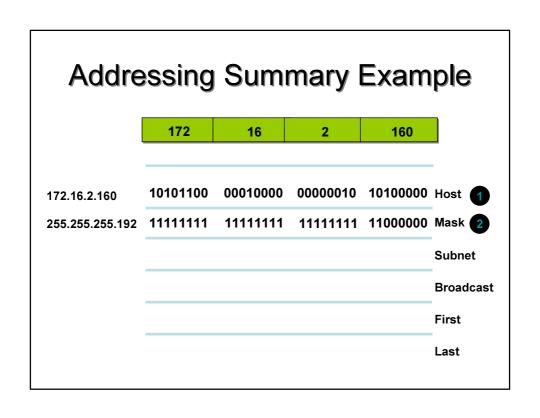


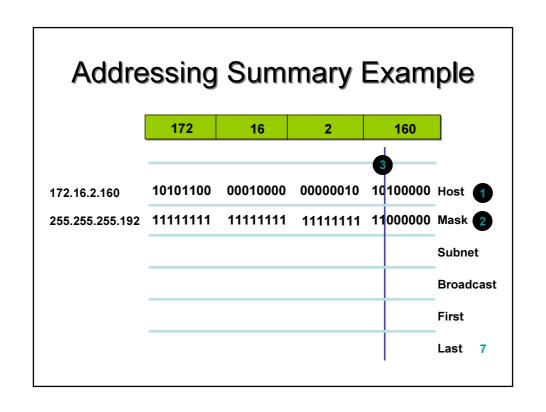
Subnet Mask Exercise

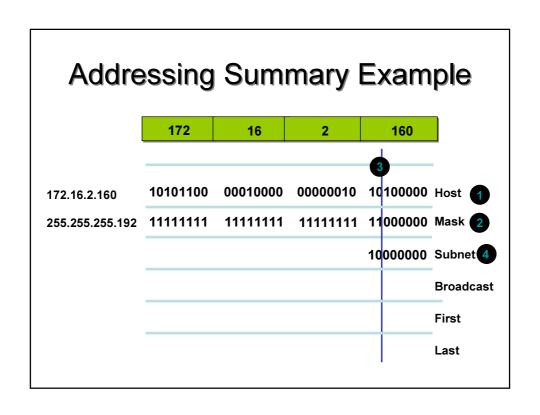
Address	Subnet Mask	Class	Subnet
172.16.2.10	255.255.255.0		
10.6.24.20	255.255.240.0		
10.30.36.12	255.255.255.0		

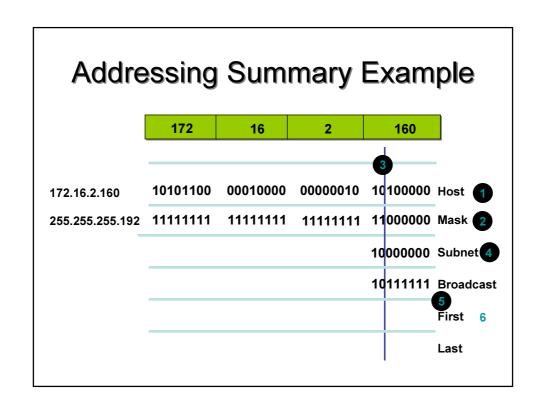


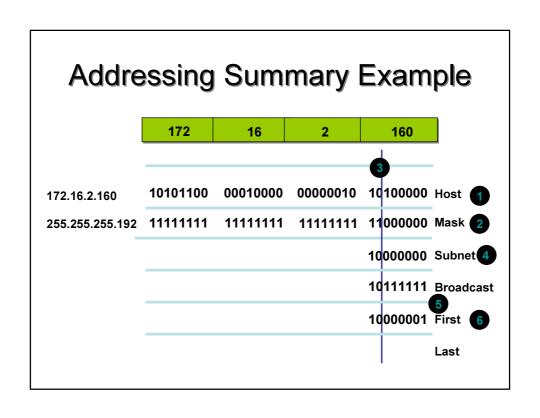


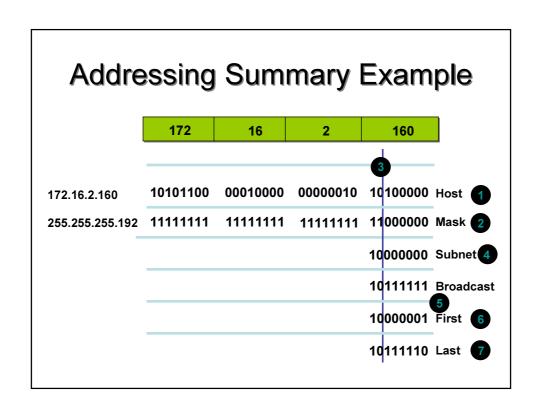


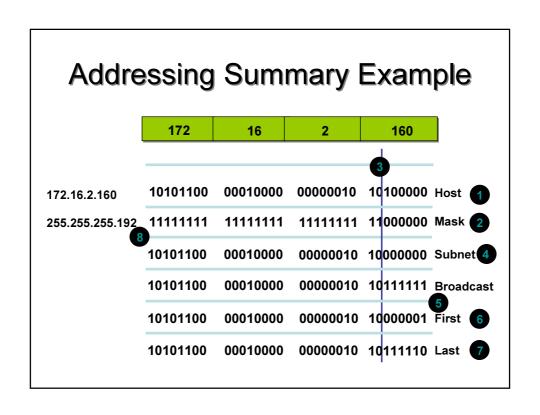


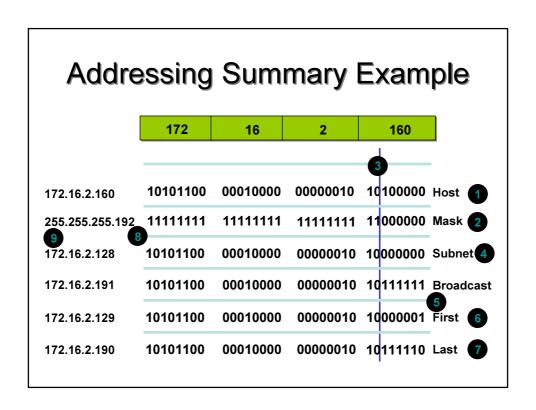










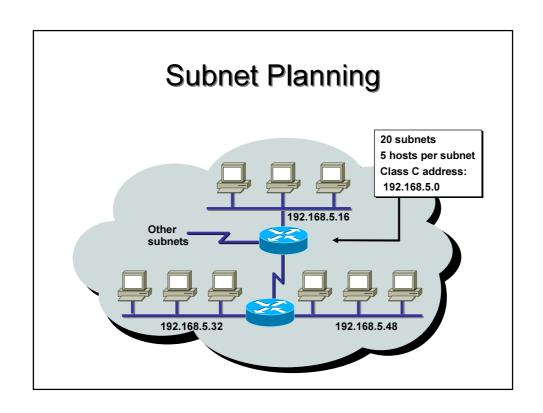


Class B Subnet Example

IP Host Address: 172.16.2.121 Subnet Mask: 255.255.255.0

	Network	Network	Subnet	Host
172.16.2.121:	10101100	00010000	00000010	01111001
255.255.255.0:	11111111	11111111	11111111	00000000
Subnet:	10101100	00010000	00000010	00000000
Broadcast:	10101100	00010000	00000010	11111111

- Subnet Address = 172.16.2.0
- Host Addresses = 172.16.2.1-172.16.2.254
- Broadcast Address = 172.16.2.255
- · Eight bits of subnetting



Class C Subnet Planning Example

IP Host Address: 192.168.5.121 Subnet Mask: 255.255.255.248

	Network	Network	Network	Subnet	Host
192.168.5.121:		10101000	00000101		
255.255.255.248: Subnet:	11000000	11111111	11111111	01111	
Broadcast:		10101000	00000101		

- Subnet Address = 192.168.5.120
- Host Addresses = 192.168.5.121–192.168.5.126
- Broadcast Address = 192.168.5.127
- · Five Bits of Subnetting

Broadcast Addresses Exercise

 Address
 Subnet Mask
 Class
 Subnet
 Broadcast

 201.222.10.60
 255.255.255.248
 15.16.193.6
 255.255.248.0

 128.16.32.13
 255.255.255.252
 153.50.6.27
 255.255.255.128