

255
0
192
168
145
8
247
1001 0101
1100 0000
21
240
127
80
9
89
129
0101 1001
1111 0000
0111 1111
0101
0110 0001
97
64
33
01
01 0001
142
168
10
25
216
147
170
154
1010 1010
1010
84
202
123
1100 1010
1100
10 0001
89
0101 1001

	1st Octet	2nd Octet	3rd Octet	4th Octet
Ip Address	168	156	174	22
Ip Address Binary	1010 1000	1001 1100	1010 1110	0001 0110
Subnet Mask	255	255	255	0
Subnet Mask Binary	1111 1111	1111 1111	1111 1111	0000 0000
Network ID	168	156	174	
Network ID Binary	1010 1000	1001 1100	1010 1110	
Host ID				22
Host ID Binary				0001 0110
	Network	Network	Network	Host

The entire octet is either network or host. SM is 255 or 0

	1st Octet	2nd Octet	3rd Octet	4th Octet	
Ip Address	122		174	22	
Ip Address Binary	0001 0110	1001 1100	1010 1110	0001 0110	
Subnet Mask	255	192	0	0	Network Host
Subnet Mask Binary	1111 1111	1100 0000	0000 0000	0000 0000	CIDR = /10
Network ID	122				
Network ID Binary	0001 0110	10			
Host ID			174	22	
Host ID Binary		01 1100	1010 1110	0001 0110	

One octet is split between network and host. SM is NOT 0 or 255

	1st Octet	2nd Octet	3rd Octet	4th Octet	
Ip Address	122	156	174	22	
Ip Address Binary	0001 0110	1001 1100	1010 1110	0001 0110	
Subnet Mask	255	192	0	0	Network Host
Subnet Mask Binary	1111 1111	1100 0000	0000 0000	0000 0000	CIDR = /10
Network ID	122	128			
Network ID Binary	0001 0110	10			
Host ID		28	174	22	
Host ID Binary		01 1100	1010 1110	0001 0110	

	1st Octet	2nd Octet	3rd Octet	4th Octet
Ip Address	142	17	65	48
Ip Address Binary	10001110	10001	1000001	110000
Subnet Mask	255	255	255	0
Subnet Mask Binary			1111 1111	
Network ID	142	17	65	0
Network ID Binary				
Host ID				48
Host ID Binary				

	1st Octet	2nd Octet	3rd Octet	4th Octet
Ip Address	168	145	8	247
Ip Address Binary				
Subnet Mask	255	255	255	0
Subnet Mask Binary				
Network ID	168	145	8	
Network ID Binary				
Host ID				247
Host ID Binary				

	1st Octet	2nd Octet	3rd Octet	4th Octet	
Ip Address	212	186	47	149	
Ip Address Binary				1001 0101	
Subnet Mask	255	255	255	192	
Subnet Mask Binary				1100 0000	
Network ID	212	186	47	128	
Network ID Binary				10	Notice that there are 2 bits in the Network ID. What does that mean the subnet mask has to be?
Host ID				21	
Host ID Binary				01 0101	

	1st Octet	2nd Octet	3rd Octet	4th Octet	
Ip Address	192	127	89	129	
Ip Address Binary			0101 1001		
Subnet Mask	255	255	240	0	
Subnet Mask Binary					
Network ID	192	127	80		
Network ID Binary	1100 0000	0111 1111	0101		Remember these are the 4 HIGH order bits of the octet
Host ID			9		
Host ID Binary			1001	1000 0001	

	1st Octet	2nd Octet	3rd Octet	4th Octet	
Ip Address	192	168	97	142	
Ip Address Binary			0110 0001		
Subnet Mask			192		
Subnet Mask Binary			1100 0000		
Network ID	192	168	64		
Network ID Binary			01		Looking at the subnet mask in binary how may bits go here?
Host ID			33	142	Looking at the subnet mask in binary how may bits go here? Remember to put a space between the nibbles
Host ID Binary			10 0001		

	1st Octet	2nd Octet	3rd Octet	4th Octet
Ip Address	10	10	25	216
Ip Address Binary				
Subnet Mask	255	0	0	0
Subnet Mask Binary	1111 1111			
Network ID	10			
Network ID Binary				
Host ID		10	25	216
Host ID Binary				

	1st Octet	2nd Octet	3rd Octet	4th Octet
Ip Address	147	147	170	154
Ip Address Binary			1010 1010	
Subnet Mask	255	255	240	0
Subnet Mask Binary			1111 0000	
Network ID	147	147	160	0
Network ID Binary			1010	
Host ID			10	154
Host ID Binary			1010	

	1st Octet	2nd Octet	3rd Octet	4th Octet
Ip Address	84	154	202	123
Ip Address Binary			1100 1010	
Subnet Mask	255	255	240	0
Subnet Mask Binary			1111 0000	
Network ID	84	154	192	
Network ID Binary			1100 0000	
Host ID			10	123
Host ID Binary			1010	

Sheet 3				
Subnet Mask	255	255	255	0

Sheet 4				
Ip Address	168	145	8	247

Sheet 5				
Ip Address	212	186	47	149
Ip Address Binary				1001 0101
Subnet Mask	255	255	255	192
Subnet Mask Binary				1100 0000
Network ID	212	186	47	128
Network ID Binary				10
Host ID				21
Host ID Binary				01 0101

Sheet 6				
Ip Address	192	127	89	129
Ip Address Binary			0101 1001	
Subnet Mask	255	255	240	0
Subnet Mask Binary			1111 0000	
Network ID	192	127	80	
Network ID Binary	1100 0000	0111 1111	0101	
Host ID			9	129
Host ID Binary			1001	1000 0001

Sheet 7				
Ip Address	192	168	97	142
Ip Address Binary			0110 0001	
Subnet Mask			192	
Subnet Mask Binary			1100 0000	
Network ID	192	168	64	
Network ID Binary			01	
Host ID			33	142
Host ID Binary			10 0001	

Sheet 8				
Subnet Mask	255	0	0	0
Subnet Mask Binary	1111 1111			
Network ID	10			
Network ID Binary				
Host ID	10	25	216	

Sheet 9				
Ip Address	147	147	170	154
Ip Address Binary			1010 1010	
Subnet Mask	255	255	240	0
Subnet Mask Binary			1111	
Network ID	147	147	160	0
Network ID Binary			1010	
Host ID			10	154
Host ID Binary			1010	

Sheet 10				
Ip Address	84	154	202	123
Ip Address Binary			1100 1010	
Subnet Mask	255	255	240	0
Subnet Mask Binary			1111	
Network ID	84	154	192	
Network ID Binary			1100	
Host ID			10	123
Host ID Binary			1010	

[illegible]