	Working With Class B Address 128.10.0.0								
Max # Of Subnets	# Of Bits	Subnet #	Host #		Of Hosts			.0.X.Y	
200	8	193	129	25	54	128	1.01	93.129	
			200 Su	bnets					
	Netv	vork ID		Su	ıbnet		Н	ost	
NNNN	NNNN		I NNNN	SSSS	S SSSS		нннн	НННН	
1000	0000	0000	1010		10000			0001	
12	28		10	10	13		1	29	
128	64	32	16	8	4		2	1	
1		O	O	Q	C				
	O		Ö	Ö	$\Box$				
							_		
			Subnet	Mask					
	Netv	vork ID		Subnet			Н	ost	
1111	1111	1111	. 1111	1111 1111			0000 0000		
2.	55	2	255	255			0		
		# Of 1	Bits	Max #	Of Subne	ts			
		2			$2^2 - 2 = 2$				
		3			3 - 2 = 6				
		4			- 2 = 14				
		5			- 2 = 30				
	-	6 7		$2^6 - 2 = 62$					
	-	8		$2^7 - 2 = 126$ $2^8 - 2 = 254$					
	-	9		$2^{9} - 2 = 254$ $2^{9} - 2 = 510$					
		10		$2^{10} - 2 = 1022$					
		11	<u> </u>		- 2 = 2046				
		12			- 2 = 4094				
	L	13	3	213 -	- 2 = 8190				

Working With Class B Address 128.10.0.0												
Max # ( Subnet		# Of Bits		onet #	Н	ost#	I	Max # Of I	losts		128.10	
120		7	11	19		68		510	<b>O</b>	12	8.10.5	38-68
					1	20 Sub	ne	ts				
		Netv	vork ID					Subnet/I	lost		Но	st
NNN	N N			NNNN	NNI	NN		SSSS S			НННН	
	0 0			0000				11101			0100	
	128		+		L O			23	_		68	
	120								<u> </u>			2
256	1.	28	64	3	2	16		8	4		2	1
			1			•		0	)		1	1
0	C	9		C	5	0	)	0	i		C	Ö
						Subnet I	Ma	sk				
		Netv	work ID			ubii:		Subnet/I	Host		Но	ost
111	1 1			1111	11:	11	1111 1110			0000		
	255				55		254			(		
	200						_					,
				# Of E	3its			Max # Of		ts		
		-		3			$2^2 - 2 = 2$ $2^3 - 2 = 6$			_		
		<u> </u>		4			$2^{3} - 2 = 6$ $2^{4} - 2 = 14$			-		
		r		5	-			25 - 2	= 30		-	
				6				26 - 2	= 62		_	
			7				$2^7 - 2 =$					
8			$2^8 - 2 = 2^9 - 2 = 2^9 - 2 = 2^9 - 2^9 - 2^9 = 2^9 - 2^9 - 2^9 = 2^9 - 2^9 $			_						
		+		9				$2^{10} - 2 =$			-	
		r		11				$2^{11} - 2 =$			+	
		Ţ		12				212 - 2 =	4094		]	
		L		13				$2^{13} - 2 =$	8190			

Working	With	Clace F	Addrace	12Q	1000

Max # Of Subnets	# Of Bits	Subnet #	Host #	Max # Of Hosts	128.10.X.Y
120	7	105	352	510	128.10.211.98

	120 Subnets								
Netwo	rk ID	Subnet/Host	Host						
NNNN NNNN	NNNN NNNN	SSSS SSSH	нннн нннн						
1000 0000	0000 1010	1100 0011	0110 0000						
128	10	211	96						

256	128	64	32	16	8	4	2	1
				0	1	O	Q	
	0			0	0	0	0	D

Subnet Mask							
Netwo	rk ID	Subnet/Host	Host				
1111 1111	1111 1111	1111 1110	0000 0000				
255 255 254 0							

# Of Bits	Max # Of Subnets
2	$2^2 - 2 = 2$
3	$2^3 - 2 = 6$
4	$2^4 - 2 = 14$
5	$2^5 - 2 = 30$
6	$2^6 - 2 = 62$
7	$2^7 - 2 = 126$
8	$2^8 - 2 = 254$
9	$2^9 - 2 = 510$
10	$2^{10} - 2 = 1022$
11	$2^{11} - 2 = 2046$
12	$2^{12} - 2 = 4094$
13	$2^{13} - 2 = 8190$

## Working With Class B Address 128.10.0.0

Max # Of Subnets	# Of Bits	Subnet #	Host #	Max # Of Hosts	128.10.X.Y
58	6	<b>6</b> 5	98	1022	128.10.180.98

58 Subnets								
Netwo	rk ID	Subnet/Host	Host					
NNNN NNNN	NNNN NNNN	SSSS SSHH	нини нини					
1000 0000	0000 1010	1011 0120	0100010					
128	10	180	98					

512	256	128	64	32	16	8	4	2	1
m	w	w	W	. 1	0		1	0	1
0	0	0	1		0	C	0	1	O

Subnet Mask							
Netwo	rk ID	Subnet/Host	Host				
1111 1111	1111 1111	1111 1100	0000 0000				
255	255	252	0				

_		
	# Of Bits	Max # Of Subnets
	2	$2^2 - 2 = 2$
	3	$2^3 - 2 = 6$
	4	$2^4 - 2 = 14$
	5	$2^5 - 2 = 30$
	6	$2^6 - 2 = 62$
	7	$2^7 - 2 = 126$
	8	$2^8 - 2 = 254$
	9	$2^9 - 2 = 510$
	10	$2^{10} - 2 = 1022$
	11	$2^{11} - 2 = 2046$
	12	$2^{12} - 2 = 4094$
	13	$2^{13} - 2 = 8190$

## Working With Class B Address 128.10.0.0

Max # Of Subnets	# Of Bits	Subnet #	Host #	Max # Of Hosts	128.10.X.Y
58	6	48	598	1022	128.10.194.86

	58 Subnets					
Netwo	rk ID	Subnet/Host	Host			
NNNN NNNN	NNNN NNNN	SSSS SSHH	нннн нннн			
1000 0000	0000 1010	1100 0010	DOLOILO			
128	10	194	86			

512	256	128	64	32	16	8	4	2	1
W			m		1	0	0	0	δ
	0	0		0		0			δ

Subnet Mask					
Netwo	ork ID	Subnet/Host	Host		
1111 1111	1111 1111	1111 1100	0000 0000		
255	255 255		0		

# Of Bits	Max # Of Subnets
2	$2^2 - 2 = 2$
3	$2^3 - 2 = 6$
4	$2^4 - 2 = 14$
5	$2^5 - 2 = 30$
6	$2^6 - 2 = 62$
7	$2^7 - 2 = 126$
8	$2^8 - 2 = 254$
9	$2^9 - 2 = 510$
10	$2^{10} - 2 = 1022$
11	$2^{11} - 2 = 2046$
12	$2^{12} - 2 = 4094$
13	$2^{13} - 2 = 8190$

Working With	Class B	Address	128 10 0 0	

Max # Of	# Of	Subnet	Host #	Max # Of Hosts	128.10.X.Y	
Subnets	Bits	#				
29	5	28	59	2046	128.60.224.59	

29 Subnets						
Networ	rk ID	Subnet/Host	Host			
NNNN NNNN	NNNN NNNN	SSSH HHHH	нннн нннн			
1000 0000	0000 1010	11100000	0011 1011			
128	10	224	59			

1024	512	256	128	64	32	16	8	4	2	1
N					2	1	1	1	0	0
0	ง	0	0	0	l		1	0	l	

Subnet Mask						
ID Net	work	Subnet/Host	Host			
1111 1111	1111 1111	1111 1000	0000 0000			
255	255 255		0			

	1 1 1 1 0 0 0 1
# Of Bits	Max # Of Subnets
2	$2^2 - 2 = 2$
3	$2^3 - 2 = 6$
4	$2^4 - 2 = 14$
5	$2^5 - 2 = 30$
6	$2^6 - 2 = 62$
7	$2^7 - 2 = 126$
8	$2^8 - 2 = 254$
9	$2^9 - 2 = 510$
10	$2^{10} - 2 = 1022$
11	$2^{11} - 2 = 2046$
12	$2^{12} - 2 = 4094$
13	$2^{13} - 2 = 8190$

Working With	Class B	Address	128 10 0 0	

Max # Of Subnets	# Of Bits	Subnet #	Host #	Max # Of Hosts	128.10.X.Y
29	5	25	1069	2046	128-10-204-45

29 Subnets							
Netwo	rk ID	Subnet/Host	Host				
NNNN NNNN	NNNN NNNN	SSS <b>Å S</b> HHH	нннн нннн				
1000 0000	0000 1010	1900 1100	0010 [10]				
128	10	204	45				

1024	512	256	128	64	32	16	8	4	2	1
W		V	W	V	く		l	0	0	
1	0	0	O	C	1	0	1		0	Ĭ

Subnet Mask							
ID Net	work	Subnet/Host	Host				
1111 1111	1111 1111	1111 1000	0000 0000				
255	255	248	0				

# Of Bits	Max # Of Subnets	
2	$2^2 - 2 = 2$	
3	$2^3 - 2 = 6$ (2x2)	ところ
4	$2^4 - 2 = 14 (4 \times 2)$	+7=14
5	$2^5 - 2 = 30 (4 \times 1)$	+2 -27
6	$2^6 - 2 = 62(30 \times 2)$	72-30
7	$2^7 - 2 = 126$	15.29 5
8	$2^8 - 2 = 254$	
9	$2^9 - 2 = 510$	
10	$2^{10} - 2 = 1022$	
11	$2^{11} - 2 = 2046$	
12	$2^{12} - 2 = 4094$	
13	$2^{13} - 2 = 8190$	

Working	With	Class	R A	ddress	9 0	0.0	

Max # Of Subnets	# Of Bits	Subnet #	Host #	Max # Of Hosts	128.10.X.Y
2000	11	1953	1119	8190	9-244.36-95

2000 Subnets							
Network ID	Subnet	Subnet/Host	Host				
NNNN NNNN	SSSS SSSS	SSSH HHHH	нннн нннн				
0000 1001	1111 0106	00100100	0101 [11]				
9	244	36	95				

4096	2048	1024	512	256	128	64	32	16	8	4	2	1
W	M	)	<b>S</b>	1		0		O	C	<b>O</b> .	C	
0	0		0	O	8	1	0	ı			t	

Subnet Mask							
Network ID	Subnet	Subnet/Host	Host				
1111 1111	1111 1111	1110 0000	0000 0000				
255	255	224	0				

# Of Bits	Max # Of Subnets
2	$2^2 - 2 = 2$
3	$2^3 - 2 = 6$
4	$2^4 - 2 = 14$
5	$2^5 - 2 = 30$
6	$2^6 - 2 = 62$
7	$2^7 - 2 = 126$
8	$2^8 - 2 = 254$
9	$2^9 - 2 = 510$
10	$2^{10} - 2 = 1022$
11	$2^{11} - 2 = 2046$
12	$2^{12} - 2 = 4094$
13	$2^{13} - 2 = 8190$

Working W	/ith Class I	3Address 🤇	9.0.0.0

Max # Of Subnets	# Of Bits	Subnet #	Host #	Max # Of Hosts	128.10.X.Y
2000	71	1949	704	8190	7.2430162.192

2000 Subnets				
Network ID	Subnet	Subnet/Host	Host	
NNNN NNNN	SSSS SSSS	SSSH HHHH	нннн нннн	
0000 1001	1111 0011	1010 0010	1/00 0000	
9	243	162	192	

4096	2048	1024	512	256	128	64	32	16	8	4	2	1
m	m		1		1	0	0		1		D	1
0	0	0		0	-		O	<b>o</b>	0	0	0	0

Subnet Mask					
Network ID	Subnet	Host			
1111 1111	1111 1111	1110 0000	0000 0000		
255	255	224	0		

# Of Bits	Max # Of Subnets
2	$2^2 - 2 = 2$
3	$2^3 - 2 = 6$
4	$2^4 - 2 = 14$
5	$2^5 - 2 = 30$
6	$2^6 - 2 = 62$
7	$2^7 - 2 = 126$
8	$2^8 - 2 = 254$
9	$2^9 - 2 = 510$
10	$2^{10} - 2 = 1022$
11	$2^{11} - 2 = 2046$
12	$2^{12} - 2 = 4094$
13	$2^{13} - 2 = 8190$

