

BASIC IP SUBNETTING

Class B

Using the Class B network 175.2.0.0, subnet the network so that you will have 254 usable subnets and at least 200 hosts in each subnet. List the first 6 subnets, their subnet address and the broadcast address for each of the subnets, as well as the usable host range available in the subnet.

Number of bits borrowed for the subnet _____ Number of bits for hosts _____

Subnet Mask _____ Number useable hosts per subnet _____

Subnet Number	Subnet Address	Broadcast Address	Usable Host Range
1			
2			
3			
4			
5			
6			

BASIC IP SUBNETTING

Class C - Part I

Using the Class C network 199.176.45.0, subnet the network so that you will have 6 usable subnets and at least 23 hosts in each subnet. List the subnet address and the broadcast address for each of the subnets, as well as the usable host range available in the subnet.

Number of bits borrowed for the subnet _____ Number of bits for hosts _____

Subnet Mask _____ Number usable hosts per subnet _____

Subnet Number	Subnet Address	Broadcast Address	Usable Host Range
1			
2			
3			
4			
5			
6			

Using the Class C network 209.94.72.0, subnet the network so that you will have 2 usable subnets and at least 58 hosts in each subnet. List the subnet address and the broadcast address for each of the subnets, as well as the usable host range available in the subnet.

Number of bits borrowed for the subnet _____ Number of bits for hosts _____

Subnet Mask _____ Number usable hosts per subnet _____

Subnet Number	Subnet Address	Broadcast Address	Usable Host Range
1			
2			

BASIC IP SUBNETTING

Class C - Part II

Using the Class C network 201.45.98.0, subnet the network so that you will have 30 usable subnets and at least 5 hosts per subnet. List the first 10 subnets, their subnet address and the broadcast address for each of the subnets, as well as the usable host range available in the subnet.

Number of bits borrowed for the subnet _____ Number of bits for hosts _____

Subnet Mask _____ Number useable hosts per subnet _____

Subnet Number	Subnet Address	Broadcast Address	Usable Host Range
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

ADVANCED IP SUBNETTING

Class B - Part I

Using the Class B network 154.17.0.0, subnet the network so that you will have 1022 usable subnets and at least 58 hosts in each subnet. List the first 15 subnets, their subnet address and the broadcast address for each of the subnets, as well as the usable host range available in the subnet.

Number of bits borrowed for the subnet _____ Number of bits for hosts _____

Subnet Mask _____ Number useable hosts per subnet _____

Subnet Number	Subnet Address	Broadcast Address	Usable Host Range
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

ADVANCED IP SUBNETTING

Class B - Part II

Using the Class B network 161.67.0.0, subnet the network so that you will have 30 usable subnets and at least 2000 hosts in each subnet. List the first 15 subnets, their subnet address and the broadcast address for each of the subnets, as well as the usable host range available in the subnet.

Number of bits borrowed for the subnet _____ Number of bits for hosts _____

Subnet Mask _____ Number useable hosts per subnet _____

Subnet Number	Subnet Address	Broadcast Address	Usable Host Range
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			