

1. Given the class B network address 128.10.0.0 will be divided into subnets. Compute:
- The minimum number of bits necessary to obtain the number of subnets required.
 - The maximum number of hosts in each subnet.
 - The subnet mask.
 - Write the dotted decimal address for the specified host on the specified subnet.

Max # Of Subnets	(a) Min # Of Subnet Bits	(b) Max # Of Hosts/Subnet	(c) Subnet Mask	Subnet #	Host #	(d) IP Address For Subnet # & Host #
115	7	510	255.255.254.0	101	235	128.10.202.235
115	7	510	255.255.254.0	97	485	128.10.195.229
500	9	126	255.255.255.128	465	99	128.10.232.227
1000	10	62	255.255.255.192	953	51	128.10.238.115
1000	10	62	255.255.255.192	949	57	128.10.237.121
2000	11	30	255.255.255.224	1,953	25	128.10.244.57
60	6	1,022	255.255.252.0	57	243	128.10.228.243
60	6	1,022	255.255.252.0	49	971	128.10.199.203
28	5	2,046	255.255.248.0	25	1,559	128.10.206.23
28	5	2,046	255.255.248.0	27	2,001	128.10.223.209

2. Given the subnet mask associated with each of the following IP addresses, compute:
- The network Number.
 - The subnet Number.
 - The host Number.

All your answers must be in decimal (Base 10).

IP Address	Subnet Mask	(a) Network Number	(b) Subnet Number	(c) Host Number
187.152.205.191	255.255.252.0	48,024	51	447
95.195.235.188	255.255.240.0	95	3,134	3,004
159.231.211.155	255.255.255.128	40,935	423	27
75.209.241.191	255.255.248.0	75	6,718	447
169.189.205.239	255.255.254.0	43,453	102	495