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Extra Credit

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Question: Subnet the Class B IP Address 172.1.1.0 So that you have 10 subnets each with a maximum 12 hosts on each subnet. What is the subnet mask? List the Addresses on each subnet.

ANSWER:

With the given IP Address it shows you are in Class B

You need to make 10 subnets which is too small you need to increase it to .

4 bits are required

The amount of network bits are bits

For the subnet mask 20 bits = 1 and 12 bits = 0

11111111.11111111.11110000.00000000

Subnet mask = 255.255.240.0

|  |  |
| --- | --- |
| Subnet Number | Address at each subnet |
| 1 | 172.1.0.0 |
| 2 | 172.1.16.0 |
| 3 | 172.1.32.0 |
| 4 | 172.1.48.0 |
| 5 | 172.1.64.0 |
| 6 | 172.1.80.0 |
| 7 | 172.1.96.0 |
| 8 | 172.1.112.0 |
| 9 | 172.1.128.0 |
| 10 | 172.1.144.0 |