**Name: ANTHONY GIMEI**

You are a Network Administrator who is given network address of 192.168.10.0/24. You need to create subnets of the size 5, 7, 10, 15 and 25 using a classful configuration. Using the table shown below, complete your routing table.

Network Address First Host Address Last Host Address Broadcast Address

|  |  |  |  |
| --- | --- | --- | --- |
| 192.168.10.0 | 192.168.10.1 | 192.168.10.30 | 192.168.10.31 |
| 192.168.10.32 | 192.168.10.33 | 192.168.10.62 | 192.168.10.63 |
| 192.168.10.64 | 192.168.10.65 | 192.168.10.94 | 192.168.10.95 |
| 192.168.10.96 | 192.168.10.97 | 192.168.10.126 | 192.168.10.127 |
| 192.168.10.128 | 192.168.10.129 | 192.168.10.158 | 192.168.10.159 |
| 192.168.10.160 | 192.168.10.161 | 192.168.10.190 | 192.168.10.191 |
| 192.168.10.192 | 192.168.10.193 | 192.168.10.222 | 192.168.10.223 |
| 192.168.10.224 | 192.168.10.225 | 192.168.10.254 | 192.168.10.255 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

How many networks will be created? **23=8**

How many hosts will be created? **25-2 = 30**

What is the new subnet mask **255.255.255.224**

11111111.11111111.11111111.111**|00000**

Network Mask = 255.255.255**.(128+64+32=224)**