Problem3:

190.10.10.0

| **Host** | **Subnet Address** | **Prefix/CIDR** | **1st usable** | **Last Usable** | **Broadcast** |
| --- | --- | --- | --- | --- | --- |
| 60 | 190.10.10.0 | /26 | 190.10.10.1 | 190.10.10.62 | 190.10.10.63 |
| 25 | 190.10.10.64 | /27 | 190.10.10.65 | 190.10.10.94 | 190.10.10.95 |
| 2 | 190.10.10.96 | /30 | 190.10.10.97 | 190.10.10.98 | 190.10.10.99 |

Problem4:

220.108.38.0

| **Host** | **Subnet Address** | **Prefix/CIDR** | **1st usable** | **Last Usable** | **Broadcast** |
| --- | --- | --- | --- | --- | --- |
| 120 | 220.108.38.0 | /25 | 220.108.38.1 | 220.108.38.126 | 220.108.38.127 |
| 50 | 220.108.38.128 | /26 | 220.108.38.129 | 220.108.38.190 | 220.108.38.191 |
| 25 | 220.108.38.192 | /27 | 220.108.38.193 | 220.108.38.222 | 220.108.38.223 |
| 2 | 220.108.38.224 | /30 | 220.108.38.225 | 220.108.38.226 | 220.108.38.227 |
| 2 | 220.108.38.228 | /30 | 220.108.38.229 | 220.108.38.229 | 220.108.38.230 |

Problem5:

192.168.10.0

11111111 11111111 11111111 00000000 (Subnet Mask)

| **Host** | **Subnet Address** | **Prefix/CIDR** | **1st usable** | **Last Usable** | **Broadcast** |
| --- | --- | --- | --- | --- | --- |
| 115 | 192.168.10.0 | /25 | 192.168.10.1 | 192.168.10.126 | 192.168.10.127 |
| 48 | 192.168.10.128 | /26 | 192.168.10.129 | 192.168.10.190 | 192.168.10.191 |
| 23 | 192.168.10.192 | /27 | 192.168.10.193 | 192.168.10.222 | 192.168.10.223 |
| 12 | 192.168.10.224 | /28 | 192.168.10.225 | 192.168.10.238 | 192.168.10.239 |
| 2 | 192.168.10.240 | /30 | 192.168.10.241 | 192.168.10.243 | 192.168.10.244 |
| 2 | 192.168.10.244 | /30 | 192.168.10.245 | 192.168.10.246 | 192.168.10.247 |

Problem6:

222.10.150.0

| **Host** | **Subnet Address** | **Prefix/CIDR** | **Broadcast** |
| --- | --- | --- | --- |
| 37 | 222.10.150.0 | /26 | 222.10.150.64 |
| 24 | 222.10.150.64 | /27 | 222.10.150.96 |
| 12 | 222.10.150.96 | /28 | 222.10.150.112 |
| 6 | 222.10.150.112 | /29 | 222.10.150.120 |
| 2 | 222.10.150.120 | /30 | 222.10.150.124 |
| 2 | 222.10.150.124 | /30 | 222.10.150.127 |

Problem15:

192.168.150.0

11111111 11111111 11111111 00000000

| **Host** | **Subnet Address** | **Prefix/CIDR** | **1st usable** | **Last Usable** | **Broadcast** |
| --- | --- | --- | --- | --- | --- |
| 96 | 192.168.150.0 | /25 | 192.168.150.1 | 192.168.150.126 | 192.168.150.127 |
| 30 | 192.168.150.128 | /27 | 192.168.150.129 | 192.168.150.158 | 192.168.150.159 |
| 23 | 192.168.150.160 | /27 | 192.168.150.161 | 192.168.150.190 | 192.168.150.191 |
| 15 | 192.168.150.192 | /27 | 192.168.150.193 | 192.168.150.222 | 192.168.150.223 |
| 12 | 192.168.150.224 | /28 | 192.168.150.225 | 192.168.150.238 | 192.168.150.239 |
| 2 | 192.168.150.240 | /30 | 192.168.150.241 | 192.168.150.243 | 192.168.150.244 |
| 2 | 192.168.150.244 | /30 | 192.168.150.245 | 192.168.150.246 | 192.168.150.247 |
| 2 | 192.168.150.248 | /30 | 192.168.150.249 | 192.168.150.250 | 192.168.150.251 |

Problem20:

223.150.50.0

11111111 11111111 11111111 00000000

| **Host** | **Subnet Address** | **Prefix/CIDR** | **1st usable** | **Last Usable** | **Broadcast** |
| --- | --- | --- | --- | --- | --- |
| 60 | 223.150.50.0 | /26 | 223.150.50.1 | 223.150.50.62 | 223.150.50.63 |
| 50 | 223.150.50.64 | /26 | 223.150.50.65 | 223.150.50.126 | 223.150.50.127 |
| 25 | 223.150.50.128 | /27 | 223.150.50.129 | 223.150.50.166 | 223.150.50.167 |
| 12 | 223.150.50.160 | /28 | 223.150.50.159 | 223.150.50.174 | 223.150.50.175 |
| 2 | 223.150.50.176 | /30 | 223.150.50.177 | 223.150.50.178 | 223.150.50.179 |
| 2 | 223.150.50.180 | /30 | 223.150.50.181 | 223.150.50.182 | 223.150.50.183 |

Problem30:

192.168.250.0/24

11111111 11111111 11111111 00000000

| **Host** | **Subnet Address** | **Prefix/CIDR** | **1st usable** | **Last Usable** | **Broadcast** |
| --- | --- | --- | --- | --- | --- |
| 35 | 192.168.250.0 | /26 | 192.168.250.1 | 192.168.250.63 | 192.168.250.64 |
| 30 | 192.168.250.64 | /27 | 192.168.250.65 | 192.168.250.95 | 192.168.250.96 |
| 30 | 192.168.250.96 | /27 | 192.168.250.97 | 192.168.250.127 | 192.168.250.128 |
| 20 | 192.168.250.128 | /27 | 192.168.250.129 | 192.168.250.159 | 192.168.250.160 |
| 20 | 192.168.250.160 | /27 | 192.168.250.161 | 192.168.250.191 | 192.168.250.192 |
| 15 | 192.168.250.192 | /27 | 192.168.250.193 | 192.168.250.222 | 192.168.250.223 |

| **Subnet** | **Subnet Address** | **Prefix/CIDR** | **1st usable** | **Last Usable** | **Broadcast** |
| --- | --- | --- | --- | --- | --- |
| 1 | 223.37.34.0 | /25 | 223.37.34.1 | 223.37.34.126 | 223.37.34.127 |
| 2 | 223.37.34.128 | /26 | 223.37.34.129 | 223.37.34.190 | 223.37.34.191 |
| 3 | 223.37.34.192 | /27 | 223.37.34.193 | 223.37.34.221 | 223.37.34.222 |
| 4 | 223.37.34.224 | /28 | 223.37.34.225 | 223.37.34.238 | 223.37.34.239 |
| 5 | 223.37.34.240 | /29 | 223.37.34.241 | 223.37.34.146 | 223.37.34.147 |
| 6 |  |  |  |  |  |
| 7 |  |  |  |  |  |
| 8 |  |  |  |  |  |
| 9 |  |  |  |  |  |
| 10 |  |  |  |  |  |

| **Subnet** | **Subnet Address** | **Prefix/CIDR** | **1st usable** | **Last Usable** | **Broadcast** |
| --- | --- | --- | --- | --- | --- |
| 1 | 192.168.10.0 | /27 | 192.168.10.1 | 192.168.10.30 | 192.168.10.31 |
| 2 | 192.168.10.32 | /29 | 192.168.10.33 | 192.168.10.38 | 192.168.10.39 |
| 3 | 192.168.10.40 | /39 | 192.168.10.41 | 192.168.10.46 | 192.168.10.47 |
| 4 | 192.168.10.48 | /30 | 192.168.10.49 | 192.168.10.50 | 192.168.10.51 |
| 5 | 192.168.10.52 | /30 | 192.168.10.53 | 192.168.10.54 | 192.168.10.55 |
| 6 |  |  |  |  |  |
| 7 |  |  |  |  |  |
| 8 |  |  |  |  |  |
| 9 |  |  |  |  |  |
| 10 |  |  |  |  |  |

| **Subnet** | **Subnet Address** | **Prefix/CIDR** | **1st usable** | **Last Usable** | **Broadcast** |
| --- | --- | --- | --- | --- | --- |
| 1 | 223.145.75.0 | /25 | 223.145.75.1 | 223.145.75.126 | 223.145.75.127 |
| 2 | 223.145.75.128 | /27 | 223.145.75.129 | 223.145.75.158 | 223.145.75.159 |
| 3 | 223.145.75.160 | /27 | 223.145.75.161 | 223.145.75.190 | 223.145.75.191 |
| 4 | 223.145.75.192 | /27 | 223.145.75.193 | 223.145.75.222 | 223.145.75.223 |
| 5 | 223.145.75.224 | /28 | 223.145.75.225 | 223.145.75.238 | 223.145.75.239 |
| 6 | 223.145.75.240 | /29 | 223.145.75.241 | 223.145.75.246 | 223.145.75.247 |
| 7 | 223.145.75.248 | /29 | 223.145.75.249 | 223.145.75.254 | 223.145.75.255 |
| 8 |  |  |  |  |  |
| 9 |  |  |  |  |  |
| 10 |  |  |  |  |  |

| **Subnet** | **Subnet Address** | **Prefix/CIDR** | **1st usable** | **Last Usable** | **Broadcast** |
| --- | --- | --- | --- | --- | --- |
| 1 | 192.168.10.0 | /25 | 192.168.10.1 | 192.168.10.126 | 192.168.10.127 |
| 2 | 192.168.10.128 | /26 | 192.168.10.129 | 192.168.10.190 | 192.168.10.191 |
| 3 | 192.168.10.192 | /28 | 192.168.10.193 | 192.168.10.206 | 192.168.10.207 |
| 4 | 192.168.10.208 | /29 | 192.168.10.209 | 192.168.10.214 | 192.168.10.215 |
| 5 | 192.168.10.216 | /30 | 192.168.10.217 | 192.168.10.218 | 192.168.10.219 |
| 6 | 192.168.10.220 | /30 | 192.168.10.221 | 192.168.10.222 | 192.168.10.223 |
| 7 | 192.168.10.224 | /30 | 192.168.10.225 | 192.168.10.226 | 192.168.10.227 |
| 8 |  |  |  |  |  |
| 9 |  |  |  |  |  |
| 10 |  |  |  |  |  |

| **Subnet** | **Subnet Address** | **Prefix/CIDR** | **1st usable** | **Last Usable** | **Broadcast** |
| --- | --- | --- | --- | --- | --- |
| 1 | 192.168.12.0 | /25 | 192.168.12.1 | 192.168.12.126 | 192.168.12.127 |
| 2 | 192.168.12.128 | /27 | 192.168.12.129 | 192.168.12.158 | 192.168.12.159 |
| 3 | 192.168.12.160 | /29 | 192.168.12.161 | 192.168.12.166 | 192.168.12.167 |
| 4 | 192.168.12.168 | /29 | 192.168.12.169 | 192.168.12.174 | 192.168.12.175 |
| 5 |  |  |  |  |  |
| 6 |  |  |  |  |  |
| 7 |  |  |  |  |  |
| 8 |  |  |  |  |  |
| 9 |  |  |  |  |  |
| 10 |  |  |  |  |  |

| **Subnet** | **Subnet Address** | **Prefix/CIDR** | **1st usable** | **Last Usable** | **Broadcast** |
| --- | --- | --- | --- | --- | --- |
| 1 | 219.75.160.0 | /26 | 219.75.160.1 | 219.75.160.62 | 219.75.160.63 |
| 2 | 219.75.160.64 | /27 | 219.75.160.65 | 219.75.160.94 | 219.75.160.95 |
| 3 | 219.75.160.96 | /28 | 219.75.160.97 | 219.75.160.110 | 219.75.160.111 |
| 4 | 219.75.160.112 | /29 | 219.75.160.113 | 219.75.160.118 | 219.75.160.119 |
| 5 |  |  |  |  |  |
| 6 |  |  |  |  |  |
| 7 |  |  |  |  |  |
| 8 |  |  |  |  |  |
| 9 |  |  |  |  |  |
| 10 |  |  |  |  |  |

| **Subnet** | **Subnet Address** | **Prefix/CIDR** | **1st usable** | **Last Usable** | **Broadcast** |
| --- | --- | --- | --- | --- | --- |
| 1 | 195.20.5.0 | /25 | 195.20.5.1 | 195.20.5.126 | 195.20.5.127 |
| 2 | 195.20.5.128 | /27 | 195.20.5.129 | 195.20.5.158 | 195.20.5.159 |
| 3 | 195.20.5.160 | /27 | 195.20.5.161 | 195.20.5.190 | 195.20.5.191 |
| 4 | 195.20.5.192 | /30 | 195.20.5.193 | 195.20.5.194 | 195.20.5.195 |
| 5 | 195.20.5.196 | /30 | 195.20.5.197 | 195.20.5.126 | 195.20.5.127 |
| 6 |  |  |  |  |  |
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| 8 |  |  |  |  |  |
| 9 |  |  |  |  |  |
| 10 |  |  |  |  |  |

| **Subnet** | **Subnet Address** | **Prefix/CIDR** | **1st usable** | **Last Usable** | **Broadcast** |
| --- | --- | --- | --- | --- | --- |
| 1 |  |  |  |  |  |
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| 10 |  |  |  |  |  |

| **Subnet** | **Subnet Address** | **Prefix/CIDR** | **1st usable** | **Last Usable** | **Broadcast** |
| --- | --- | --- | --- | --- | --- |
| 1 |  |  |  |  |  |
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| 10 |  |  |  |  |  |

| **Subnet** | **Subnet Address** | **Prefix/CIDR** | **1st usable** | **Last Usable** | **Broadcast** |
| --- | --- | --- | --- | --- | --- |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
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