**Activity 6.7.3: IPv4 Address Sub Netting Part 1**

Problem 1

|  |  |
| --- | --- |
| Host IP Address | 172.30.1.33 |
| Network Mask | 255.255.0.0 (/23) |
| Network Address | 172.30.0.0 |
| Network broadcast Address | 172.30.255.255 |
| Total Number of Host Bits | 16 |
| Number of Hosts | 16 |

Problem 2

|  |  |
| --- | --- |
| Host IP Address | 172.30.1.33 |
| Network Mask | 255.255.255.0 |
| Network Address | 172.30.1.0 |
| Network broadcast Address | 172.30.1.255 |
| Total Number of Host Bits | 8 |
| Number of Hosts | 24 |

Problem 3

|  |  |
| --- | --- |
| Host IP Address | 192.168.10.234 |
| Network Mask | 255.255.255.0 |
| Network Address | 192.168.10.0 |
| Network broadcast Address | 192.168.10.255 |
| Total Number of Host Bits | 8 |
| Number of Hosts |  |

Problem 4

|  |  |
| --- | --- |
| Host IP Address | 172.17.99.71 |
| Network Mask | 255.255.0.0 |
| Network Address | 172.17.0.0 |
| Network broadcast Address | 172.17.255.255 |
| Total Number of Host Bits | 16 |
| Number of Hosts |  |

Problem 5

|  |  |
| --- | --- |
| Host IP Address | 172.168.3.219 |
| Network Mask | 255.255.0.0 |
| Network Address | 172.168.0.0 |
| Network broadcast Address | 172.30.255.255 |
| Total Number of Host Bits | 16 |
| Number of Hosts |  |

Problem 6

|  |  |
| --- | --- |
| Host IP Address | 172.168.3.219 |
| Network Mask | 255.255.0.0 |
| Network Address | 172.168.0.0 |
| Network broadcast Address | 172.168.255.255 |
| Total Number of Host Bits | 16 |
| Number of Hosts |  |