|  |  |
| --- | --- |
| **Host IP Address** | 172.30.1.33 |
| **Subnet Mask** | 255.255.255.0 |
| **Number of Subnet Bits** | 8 |
| **Number of Subnets** | 256 |
| **Number of Host Bits per Subnet** | 8 |
| **Number of Usable Hosts per Subnet** | 254 |
| **Subnet Address for this IP Address** | 173.30.1.0 |
| **IP Address of First Host on this Subnet** | 172.30.1.1 |
| **IP Address of Last Host on this Subnet** | 172.30.1.254 |
| **Broadcast Address for this Subnet** | 173.30.1.255 |

Activity 6.7.4: IPv4 Address Subnetting Part 2

Problem 1

Problem 2

|  |  |
| --- | --- |
| **Host IP Address** | 172.30.1.33 |
| **Subnet Mask** | 255.255.255.252 |
| **Number of Subnet Bits** | 14 |
| **Number of Subnets** | 16384 |
| **Number of Host Bits per Subnet** | 2 |
| **Number of Usable Hosts per Subnet** | 2 |
| **Subnet Address for this IP Address** | 172.30.1.32 |
| **IP Address of First Host on this Subnet** | 172.30.1.33 |
| **IP Address of Last Host on this Subnet** | 172.30.1.2 |
| **Broadcast Address for this Subnet** | 172.30.1.3 |

Problem 3

|  |  |
| --- | --- |
| **Host IP Address** | 192.192.10.234 |
| **Subnet Mask** | 255.255.255.0 |
| **Number of Subnet Bits** | 8 |
| **Number of Subnets** | 256 |
| **Number of Host Bits per Subnet** | 8 |
| **Number of Usable Hosts per Subnet** | 254 |
| **Subnet Address for this IP Address** | 192.192.10.0 |
| **IP Address of First Host on this Subnet** | 192.192.10.1 |
| **IP Address of Last Host on this Subnet** | 192.192.10.254 |
| **Broadcast Address for this Subnet** | 192.192.10.255 |

Problem 4

|  |  |
| --- | --- |
| **Host IP Address** | 172.17.99.71 |
| **Subnet Mask** | 255.255.255.0 |
| **Number of Subnet Bits** | 8 |
| **Number of Subnets** | 256 |
| **Number of Host Bits per Subnet** | 8 |
| **Number of Usable Hosts per Subnet** | 254 |
| **Subnet Address for this IP Address** | 172.17.99.0 |
| **IP Address of First Host on this Subnet** | 172.17.99.1 |
| **IP Address of Last Host on this Subnet** | 172.17.99.254 |
| **Broadcast Address for this Subnet** | 172.17.99.255 |

Problem 5

|  |  |
| --- | --- |
| **Host IP Address** | 192.168.3.219 |
| **Subnet Mask** | 255.255.255.0 |
| **Number of Subnet Bits** | 8 |
| **Number of Subnets** | 256 |
| **Number of Host Bits per Subnet** | 8 |
| **Number of Usable Hosts per Subnet** | 254 |
| **Subnet Address for this IP Address** | 192.168.3.0 |
| **IP Address of First Host on this Subnet** | 192.168.3.1 |
| **IP Address of Last Host on this Subnet** | 192.168.3.254 |
| **Broadcast Address for this Subnet** | 192.168.3.255 |

Problem 6

|  |  |
| --- | --- |
| **Host IP Address** | 192.168.3.219 |
| **Subnet Mask** | 255.255.255.252 |
| **Number of Subnet Bits** | 14 |
| **Number of Subnets** | 16384 |
| **Number of Host Bits per Subnet** | 2 |
| **Number of Usable Hosts per Subnet** | 16382 |
| **Subnet Address for this IP Address** | 192.168.3.216 |
| **IP Address of First Host on this Subnet** | 192.168.3.217 |
| **IP Address of Last Host on this Subnet** | 192.168.3.2 |
| **Broadcast Address for this Subnet** | 192.168.3.3 |













