**Outcome 2 Research Task 6 - IP Addressing- Name:**

1. What part of an IPv4 address makes up the network portion?

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1. Why is it important that the network portion of the IPv4 address is the same for all hosts?

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1. From the following table, identify the Network Portion of the following IPv4 and Subnet Mask

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| --- | --- | --- | --- | --- |
| 192 | 168 | 10 | 10 |  |
| 255 | 255 | 255 | 0 |  |
| Answer: | | | | |
| 241 | 174 | 233 | 14 |  |
| 255 | 0 | 0 | 0 |  |

Answer:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 142 | 162 | 232 | 128 |  |
| 255 | 255 | 0 | 0 |  |
| Answer: | | | | |
| 241 | 108 | 221 | 132 |  |
| 255 | 0 | 0 | 0 |  |

Answer:

1. What address within a range of IPv4 addresses would the Broadcast address always be?

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1. Setting a Default Gateways allow what?

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1. Identify the Network Address class from the following Subnet Masks

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| --- | --- |
| **Subnet Mark** | **Network Address Class** |
| 255.255.0.0 |  |
| 255.255.255.255 |  |
| 255.255.255.0 |  |
| 255.0.0.0 |  |