

## IP Addressing Questions

- Q1 Given an IP Address of 192.168.104.67/248, what is the Network address of this host. Please also provide the valid host range and the Broadcast Address for the Network.
- Q2 With an IP Address of 108.161.61.101/22, what is the Network address of this host. Please also provide the valid host range and the Broadcast Address for the Network.
- Q3 You capture a packet with a destination IP Address of 171.204.169.214. You are using a /21 mask within your Networks. Which Network is this packet destined for?
- Q4 If you have an allocated IP address of 180.100.0.0 and require 1002 Networks, what would the correct subnet mask be to achieve this?
- Q5 Given an IP Address of 200.210.190.0 and a need for 8 Subnetworks and 20 Hosts per Network, what mask would I choose?
- Q6 An ISP has assigned your Organisation a Class B IP Address of 151.214.0.0/16. Provide the correct VLSM solution that provides;
- 500 Networks with 100 Hosts  
50 Networks with 5 Hosts
- Q7 As Chief Network Design, you have been given the following challenge. Your Service Provider has allocated the Network address 199.193.1.0 to your company branch offices. Your organisation has 8 branch offices, 6 have 30 hosts, 2 smaller offices have only 6 hosts. You also have point to point WAN links between each branch. Please provide a VLSM solution that meets these needs.