

IP Addressing Review Worksheet

Answer the following questions regarding IP addressing. Make sure you show your work and circle your answers. If you can determine the answer in your head, explain the process you used.

1. What is the subnet mask associated with a /19 network?
2. How many /28 networks can be created from a /23 network?
3. What is the network and broadcast address associated with 69.35.124.37/27?
4. How many assignable IP addresses are available on a network with a subnet mask of 255.255.255.224?
5. Is 216.114.159.127/25 a valid host IP address? If so, why? If not, why not?
6. What size network would you need to request if you required three /28's, one /27, and four /30's, and you wanted them to occupy continuous IP address space?
7. What is the slash-notation associated with subnet mask 255.254.0.0?

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8. You are given 64.30.71.0/24 by ARIN. Your business currently has four separate networks. The first network has 20 systems on it. The second network has 100 systems on it. The third network has 12 systems on it. The fourth network has 7 systems on it. Allocate these networks out of your assigned /24. Make sure you save at least 50 continuous IP addresses for future expansion.