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COMPUTER SYSTEMS UD6: NETWORKS INTRODUCTION A02: NETWORK IP ADDRESSING

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1. Find out the network address of the following IP addresses

188.10.18.2/16	
10.10.48.80/24	
192.149.24.191/24	
150.203.23.19/16	

2. What class of network do the following IP addresses correspond to?

10.250.1.1	
150.10.15.0	
192.14.2.0	
148.17.9.1	
193.42.1.1	
126.8.156.0	
220.200.23.1	
230.230.45.58	

3. Fill in the missing data in the following table.

IP address	Network address/ Network mask	Broadcast address	Gateway address	IP address range
192.168.240.120		192.168.240.255		
172.6.12.34			172.16.0.1	
10.1.1.1				10.0.0.2/10.255.255.254







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4. Let's imagine that we must configure a network with 50 computers using private IPs: What kind of IP address do I need? - Choose a network address among the possible ones.

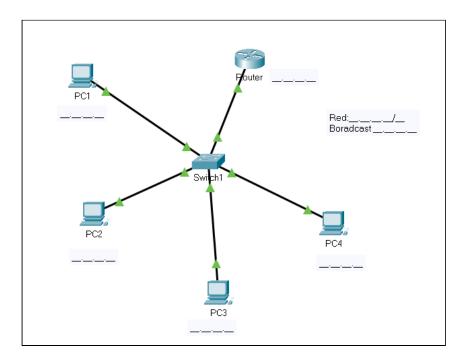
What range of IP addresses will we use?

What netmask does that IP address have?

What range of IP addresses can I assign to hosts?

What IP will I assign to the gateway?

Fill in the values in the following image selecting for the 4 PCs some of the possible addresses available.



5. Subnetting. Suppose we need to configure IP addressing

A company has a class C network and needs to create 2 subnets with the capacity to connect at least 40 computers in each of them. Write the network identifier and the subnet identifier knowing that IPv4 addresses are used.