## **Understanding IP Addressing**

What is NAT and what does it do?

Use your notes or other sources to answer the following questions. An IP address is composed of four octets. An octet is composed of 8 binary bits. 200.10.5.6. is an example of an IP Address. In this case the four octets are listed as decimal numbers separated by a dot. This form of an IP address is known as dotted decimal form. All IP addresses can be classified as class A, B or C. The first octet determines what class the IP address is. In the example given here the first octet is 200.

Record the range of values for the <b>first octet</b> for each of the following classes:			
A =	B =	C =	
What is special a	bout a value of <b>127</b> in the first octet	??	
bring up the DOS		rograms > Accessories > Command P. OS commands. Type in the following onere:	
		eates that your network interface card in a network. The	
What is special a	bout IP addresses that start with 224	4 for higher numbers?	
Every IP address	is composed of two parts, the	id and the	id.
TCP/IP hosts con	nmunicate by using the subnet masl	k to determine what?	
Write down the the	hree starting IP addresses for the pri	ivate IP address ranges:	
Class A If you check the l	Class B IP address of your computer at hom	Class C e most likely it will be a class C priva	te address.
What is the probl	lem with private IP addresses?		
What are the two	ways of assigning IP addresses to a	a workstation?	
What is purpose	of DHCP?		

What is the name of the device that connects a local a	rea network to the internet?			
What is DNS and what does it do?				
What is Divis and what does it do.				
Finding these terms on your computer: Open the DOS prompt and type <b>IPCONFIG /all</b> Copy down the following information:				
Host name				
IP Address	Subnet Mask			
Physical Address	Default Gateway			
DHCP Server	DNS Server			
Date Lease was obtained				