

## IP Addressing Homework

For each of the IP addresses and masks below, list the network address, broadcast address, and the available host addresses. The address you've been given could be a network, host, or broadcast address.

- 1) 192.168.1.0 255.255.255.0
  - a. Network
  - b. Broadcast
  - c. Hosts
- 2) 192.168.52.138 255.255.255.0
  - a. Network
  - b. Broadcast
  - c. Hosts
- 3) 200.72.6.255 255.255.255.0
  - a. Network
  - b. Broadcast
  - c. Hosts
- 4) 156.99.165.17 255.255.0.0
  - a. Network
  - b. Broadcast
  - c. Hosts

These problems are more difficult. You may use the calculator on <http://www.subnet-calculator.com/cidr.php>, although macho network engineers can do them in their heads ;-). Note that the calculator "CIDR address range" field includes the network and broadcast addresses, as well as the available host addresses.

- 5) 172.16.18.121 255.255.254.0
  - a. Network
  - b. Broadcast
  - c. Hosts
  - d. CIDR mask bits
- 6) 10.2.56.200 255.255.255.192
  - a. Network
  - b. Broadcast
  - c. Hosts
  - d. CIDR mask bits