Networking Basics Note Sheet:  LAN's vs. WAN's

**Network Advantages and Disadvantages**
Advantages:
- Enable people to work together
- Reduce _____ from sharing networked hardware and software
- Increase _____ by sharing data
- Provide access to a wide range of services and specialized peripheral devices

Disadvantages:
- _____ resources when network malfunctions
- More vulnerable to _____ access than stand alone computers
- Susceptible to an increased number of worms, Trojan horses, and blended threats

_____ **(LAN)**
- Network of computers located in a _____, like a home, school, or office building
- Can share connection with other LANS and with the internet

**Characteristics of a LAN**
- Relatively limited in _____
- Computers connected in _____areas
- Same _____
- _____peer-to-peer
- Can support _____number of nodes

_____ **(WAN)**
- Network over a _____ like a city, a country, or multiple countries
- Connects multiple _____ together
- Generally utilizes different and much more expensive networking equipment than LANs
- The _____ is the most popular WAN

**Types of WANS**
- _____ Area Network – limited geographic area
- Metropolitan Area Network – towns and _____
- Home Area Network – home_____
- Global Area Network – uses _____ to link networks
- Storage Area Network – stores large amounts of _____

**Wiring in Computer Networks**
- _____ cable - often used to connect computers
- Phone or cable TV lines – connect LAN to  an _____
- Fiber optic cable – used by much of the internet to send data quickly over long distances underground

**Wired Network**
- A wired network uses cables to connect network devices
- Wired networks are _____, _____, and _____to configure
- Devices tethered to cables have limited _____

**Wireless Networking**
- A network is considered wireless when data is transmitted from one device to another without cables or wires
- Tend to be _____ than wired networks
- Have more _____
- Common wireless terms:
- _____ - common standard technology for building home networks and other LANs
- _____– many businesses use Wi-Fi technology to allow the public an access point to a wireless network
- _____– allows handhelds, cell phones, and other peripherals to communicate over short ranges