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- you really don't care about. (Except, when it is not working).

2  **What is a network?**

- PCs and other devices (printers) that are connected together.

3  **LAN**

- Connected together in a small geographic area (our lab, the school).

4  **WAN**

- Over a large geographic area (all of the schools in the district).

5  **What is the Internet?**

- Communicate by a common language called Internet Protocol. (IP)
- Different sizes of computers to communicate and share information.

6  **How did the Internet begin?**

- Government of Defense project called ARPANET during the 1960's.
- ARPANET – Advanced Research Projects Agency

7  **Why is there an Internet?**

- Needed military to communicate in the event of a nuclear attack.

8  **Who owns the Internet?**

- No one owns the Internet or world wide network. it is decentralized.

9  **Who controls the Internet?**

- Designed for military use and can continue to operate even if many systems are destroyed.

10  **Inventing the world wide web**

- Started a project based on the concept of hypertext, to facilitate sharing and updating information among researchers.
- CERN (Conseil Européen pour la Recherche Nucléaire)

11  **Inventing the world wide web**

- In 1989. CERN was the largest Internet node in Europe

- Berners-Lee saw an opportunity to join hypertext and connect it to the TCP and DNS ideas and — ta-da! — the World Wide Web."

12 **Inventing the World Wide Web**

- He designed and built the first web browser and editor (called WorldWideWeb and developed on NEXTSTEP) and the first Web server called httpd (short for HyperText Transfer Protocol daemon).

13 **Inventing the World Wide Web**

- The first Web site built was at CERN and was first put online on August 6, 1991. It provided an explanation about what the World Wide Web was, how one could own a browser and how to set up a Web server. It was also the world's first Web directory.

14 **Inventing the World Wide Web**

- In 1994, Berners-Lee founded the World Wide Web Consortium (W3C) at the Massachusetts Institute of Technology. It comprised various companies that were willing to create standards and recommendations to improve the quality of the Web.
- Berners-Lee made his idea available freely, with no patent and no royalties due. The World Wide Web Consortium decided that their standards must be based on royalty-free technology, so they can be easily adopted by anyone.

15

- Internet exists when computers are turned on and connected to other networks.

16 **When is the Internet?**

- The Internet exists 24/7
- It is always available, as long as there are computers connected to each other.

17 **What is on the Internet?**

-

18 **What is on the Internet?**

-
- Web pages
-
- Music
-
-

- Graphics

19 What is a Modem?

- A modem is a device that computers use to connect to networks and the Internet. A modem converts digital signals into analog signals that travel through phone, cable or Ethernet lines.
- Modem – modulator/ demodulator

20 What are the types of modems?

- Dial-Up – connect through standard phone line
 - Speed equals 28kps
- DSL – digital subscriber line – via the phone company, must be within 5 miles of a switching station
 - Speed equals 768kps (basic) 6.000 (high end)
- Cable – shared connection provided by the cable company
 - Speed equals 8.000kps

21 How fast is a modem?

- Check yours here

22 How do I get to the Internet?

- Connect via an ISP - Internet Service Provider
 - Aol. Time-Warner. Charter. Verizon. Earthlink. msn. iuno
- ser such as Internet Explorer or Safari to “browse the web”.
- Use an e-mail program to access e-mail
- h as FTP (File Transfer Protocol) or IM (Instant Messaging).
- ic Use Agreement on file in the office to access the Internet

23 How do I get to the Internet?

24 What is E-Mail?

- sages to be sent from one person to another via computer.

25 What is FTP?

- File Transfer Protocol
 - rring information from one computer to another computer

26 What is the World Wide Web?

- o to be viewed together on pages connected by hyperlinks.

27 What is the Web Server?

- the computers that actually run web sites. The term "web server" also refers to the piece of software that runs on those files to them, as well as processing form submissions.

28 What is a browser?

- web pages consisting of text, graphics, sounds, and video.
- Examples are:
 - Safari
 - Firefox
 - Opera
 - Internet Explorer

29 How does a browser work?

- TCP/IP
 - Transmission Control Protocol/Internet Protocol
 - TCP/IP is the language of the Internet
 - that all data arrives at the destination in the correct order.
- HTML
 - Hyper Text Markup Language
- URL
 - Uniform Resource Locator – a web page address
 - Ex: <http://www.mvwebsite.com>

30 How does a browser work?

- HTTP
 - the protocol used to access a World Wide Web document
- Hypertext
 - Hotlink in a web page

31 What is .com?

- .com

- Commercial – for profit
- .mil
 - Military
- .edu
 - Education
- .org
 - Non-profit organization
- .gov
 - Government

32 What is a Search Engine?

- e that helps you to find what you are looking for on the web
 - Yahoo
 - Google
 - Dogpile
 - Bing
 - Yahoo! Answers
 - Lycos
 - Alta Vista

33 What is a Virus?

- Embedded piece of software designed to damage a computer

34 What is Bandwidth?

- Capacity of a network. usually measured in bits per second.

35 What is Baud?

- Times per second the signal can change on a transmission line.

36 What is DNS?

- Domain Name System
 - a computer's name and find the computer's IP address.
 - cisco.k12.ca.us

37 What is Ethernet?

- Ethernet is a popular Local Area Network technology invented at the Xerox Corporation. An Ethernet consists of a cable that connects the computer to the Ethernet.

38 What is FAQ?

- Frequently Asked Questions

39 What is a File Server?

- A computer that provides access to files on that computer.

40 What is Protocol?

- Two or more computers must follow to exchange information.

41 What is a Router?

- A Router is a special device. Basically routers sit at key points on the Internet and act like traffic cops at an intersection, receiving packets being sent by your computer and then forwards the packet to the appropriate destination. In some cases your data will

42 Router

43 What is a Firewall?

- A program that filters incoming and outgoing traffic between your computer and the rest of the Internet, filtering out unwanted traffic and foiling attempts to interfere with or take over your computer. Firewall software for your own computer, which is also fairly common.

44 The Internet

- You really don't care about. (Except, when it is not working).