

Across

5 Collection of computers and devices connected together via communications devices and transmission media, allowing computers to share resources. (7)

6 Special network operating system software that needs to be installed on each client computer connected to a server. (3)

8 Signal that consists of a continuous electrical wave having amplitude and frequency. (6)

9 Dozens or hundreds of thin strands of glass or plastic that use light to transmit signals. (10)

12 A small segment of data that is bundled for sending over transmission media. (6)

16 Transmission from an earth-based station to a satellite. (6)

17 When two computers send data at the same time and the sets of data collide on the media. (13)

18 Portion of a company's network that allows customers or suppliers of a company to access parts of an enterprise's intranet. (8)

20 Computer that controls access to the hardware, software, and other resources on a network and provides a centralized storage area for programs, data, and information. (4)

21 Electrical disturbance that can degrade communications. (5)

22 Transmission media that consists of one or more twisted-pair wires bundled together. (11)

23 Server that manages printers and print jobs. (11)

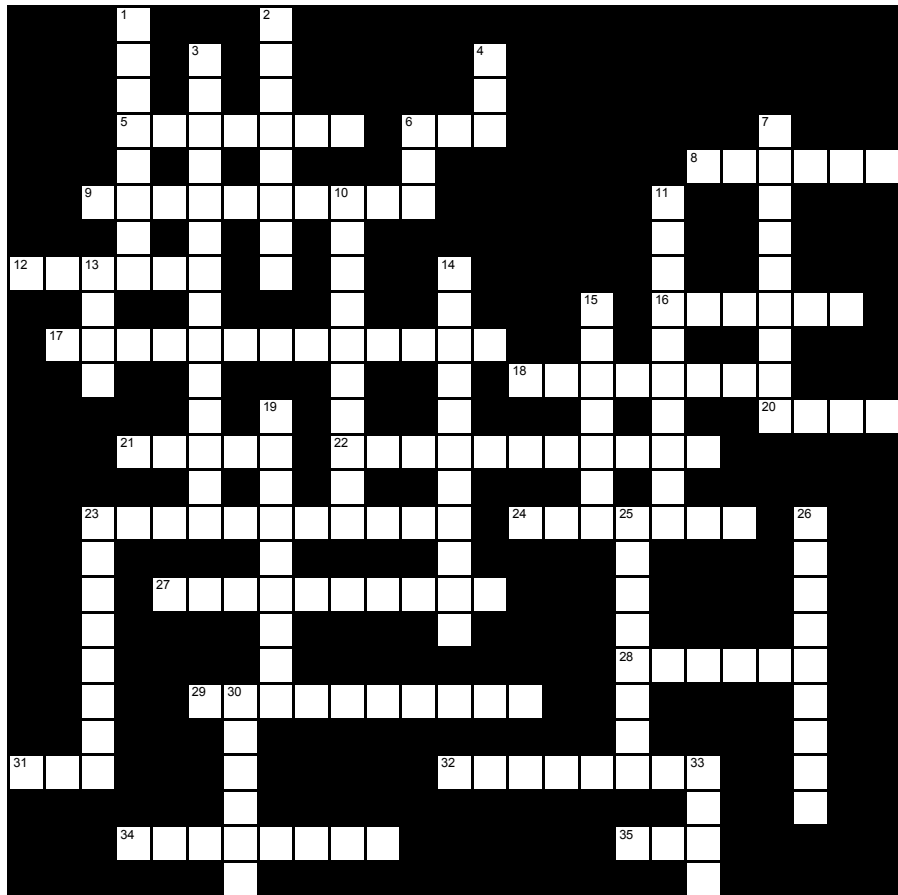
24 The time it takes a signal to travel from one location to another on a network. (7)

27 Radio waves that provide a high-speed signal transmission. (10)

28 Communications device that connects multiple computers or other routers together and transmits data to its correct destination on a network. (6)

29 The actual speed of data transfer that is achieved in a particular transmission media. (10)

31 Type of digital technology that provides high-speed Internet connections using regular copper telephone lines. (3)



32 A device that is installed on a long cable run to amplify a signal. (8)

34 Software or hardware designed to prevent unauthorized access to computers or networks. (8)

35 Network that connects computers and devices in a limited geographical area such as a home, school computer laboratory, office building, or closely positioned group of buildings. (3)

Down

1 Transmission from a satellite to an earth-based station. (8)

2 Term used to describe the layout of computers and devices in a communications network. (8)

3 The process whereby users prove they have authorization to use a computer network. (14)

4 Navigation system that consists of one or more earth-based receivers that accept and analyze signals sent by satellites in order to determine the receiver's

geographic location. (3)

6 An expansion card that enables a computer to connect to the Internet. (3)

7 The amount of data, instructions, and information that can travel over a communications channel. (9)

10 A device that absorbs a signal so that it is not reflected back onto parts of the network that have already received it. (10)

11 The process of converting a digital signal into an analog signal. (10)

13 A single copper wire surrounded by at least three layers. (4)

14 A go-between connecting computers on the internal network with computers on the external network. (11)

15 Wireless network that provides Internet connections to mobile computers and other devices. (7)

19 Computer that delivers requested Web pages to your computer. (9)

23 Standard, or set of rules, that outlines characteristics of how two network devices communicate to exchange data. (8)

25 Network standard that specifies no central computer or device on the network should control when data can be transmitted. (8)

26 Coffee house, restaurant, or other location that provides personal computers with Internet access to its customers. (9)

30 Anyone who unlawfully breaks into a computer system. (6)

33 Type of network topology in which a cable forms a closed loop circle with all computers and devices arranged along the circle. (11)

(4)