

Technology in Action, Complete, 15e (Evans et al.)
Chapter 2 Looking at Computers: Understanding the Parts

- 1) What is the difference between data and information?
A) Data represents a fact. Information is data that has been organized.
B) They are essentially the same thing.
C) Data is numbers. Information is words.
D) Data represents a process. Information is the stored data.

Answer: A

Diff: 1

Objective: 2.01 Describe the four main functions of a computer system and how they interact with data and information.

- 2) Computers use a _____ language consisting of 0s and 1s.
A) symbol
B) binary
C) byte
D) system

Answer: B

Diff: 1

Objective: 2.02 Define bits and bytes, and describe how they are measured, used, and processed.

- 3) In binary language, each letter of the alphabet, each number, and each special symbol is made up of a unique combination of eight _____.
A) bytes
B) kilobytes
C) characters
D) bits

Answer: D

Diff: 2

Objective: 2.02 Define bits and bytes, and describe how they are measured, used, and processed.

- 4) Which of the following is the smallest unit of measure?
A) Megabyte
B) Gigabyte
C) Petabyte
D) Terabyte

Answer: A

Diff: 2

Objective: 2.02 Define bits and bytes, and describe how they are measured, used, and processed.

5) Apple's macOS and Microsoft Windows are examples of _____ software.

- A) utility
- B) application
- C) operating system
- D) communication

Answer: C

Diff: 2

Objective: 2.02 Define bits and bytes, and describe how they are measured, used, and processed.

6) An Apple iPad and an Amazon Fire are examples of _____ computers.

- A) tablet
- B) netbook
- C) desktop
- D) laptop

Answer: A

Diff: 1

Objective: 2.03 List common types of computers, and discuss their main features.

7) Which of the following computers is large, expensive, and is designed to execute a few programs as fast as possible?

- A) Desktop computer
- B) Supercomputer
- C) Mainframe computer
- D) Embedded computer

Answer: B

Diff: 2

Objective: 2.03 List common types of computers, and discuss their main features.

8) _____ computers are specially designed computer chips that reside inside other devices, such as a car.

- A) Tablet
- B) Desktop
- C) Embedded
- D) Netbook

Answer: C

Diff: 2

Objective: 2.03 List common types of computers, and discuss their main features.

9) A keyboard and touch screen are the most common of _____ devices.

- A) output
- B) processing
- C) input
- D) storage

Answer: C

Diff: 1

Objective: 2.04 Identify the main types of keyboards and touch screens.

10) A(n) _____ is an input device that looks like a pen.

- A) joystick
- B) e-rod
- C) pointer
- D) stylus

Answer: D

Diff: 1

Objective: 2.04 Identify the main types of keyboards and touch screens.

11) Each of these is a basic type of a touch screen, EXCEPT _____.

- A) resistive
- B) reflective
- C) capacitive
- D) surface acoustic wave

Answer: B

Diff: 3

Objective: 2.04 Identify the main types of keyboards and touch screens.

12) The number of pixels displayed on the screen is known as _____.

- A) contrast ratio
- B) aspect ratio
- C) brightness resolution
- D) screen resolution

Answer: D

Diff: 2

Objective: 2.07 Describe options for outputting images and audio from computing devices.

13) The most common type of monitor for laptops and desktop computers is a(n) _____.

- A) liquid crystal display (LCD)
- B) light-emitting diode (LED)
- C) organic light-emitting diode (OLED)
- D) cathode ray tube (CRT)

Answer: A

Diff: 2

Objective: 2.07 Describe options for outputting images and audio from computing devices.

14) The two main categories of home and office printers are _____ and laser printers.

- A) inkjet
- B) large format
- C) cloud-based
- D) thermal

Answer: A

Diff: 2

Objective: 2.08 Describe various types of printers, and explain when you would use them.

15) _____ printers use static electricity, toner, and heat to set an image on a page very quickly.

- A) Inkjet
- B) Thermal
- C) Nonimpact
- D) Laser

Answer: D

Diff: 1

Objective: 2.08 Describe various types of printers, and explain when you would use them.

16) The _____ contains the central electronic components of the computer.

- A) motherboard
- B) arithmetic/logic unit
- C) peripheral unit
- D) input unit

Answer: A

Diff: 1

Objective: 2.09 Describe the functions of the motherboard and RAM.

17) A _____ enables your computer to connect to other computers or to the Internet.

- A) video card
- B) network interface card (NIC)
- C) sound card
- D) controller card

Answer: B

Diff: 2

Objective: 2.09 Describe the functions of the motherboard and RAM.

18) The computer stores currently used programs and data in _____.

- A) ROM
- B) CPU
- C) RAM
- D) USB

Answer: C

Diff: 2

Objective: 2.09 Describe the functions of the motherboard and RAM.

19) RAM is a _____ storage location.

- A) permanent
- B) peripheral
- C) volatile
- D) nonvolatile

Answer: C

Diff: 2

Objective: 2.09 Describe the functions of the motherboard and RAM.

20) The area that holds all the startup instructions the computer needs to start is _____.

- A) RAM
- B) ROM
- C) USB
- D) CPU

Answer: B

Diff: 2

Objective: 2.09 Describe the functions of the motherboard and RAM.

21) A(n) _____ CPU has two processing paths, allowing it to process more than one instruction at a time.

- A) all-in-one
- B) bimodal
- C) dual-core
- D) dual-mode

Answer: C

Diff: 3

Objective: 2.10 Explain the main functions of the CPU.

22) Which of the following is NOT an example of nonvolatile storage?

- A) Hard drive
- B) DVD
- C) RAM
- D) Flash drive

Answer: C

Diff: 2

Objective: 2.11 Describe the various means of storing data and information with computing devices.

23) Dropbox is an example of _____.

- A) SSD technology
- B) cloud storage
- C) optical storage
- D) Bluetooth technology

Answer: B

Diff: 2

Objective: 2.11 Describe the various means of storing data and information with computing devices.

24) Flash drives plug into a(n) _____.

- A) USB port
- B) serial port
- C) expansion slot
- D) drive bay

Answer: A

Diff: 2

Objective: 2.11 Describe the various means of storing data and information with computing devices.

25) Which of the following optical storage media has the greatest storage capacity?

- A) DVD DL
- B) DVD
- C) CD
- D) Blu-ray

Answer: D

Diff: 2

Objective: 2.11 Describe the various means of storing data and information with computing devices.

26) Which port is the most common port used to connect input and output devices to a computer?

- A) Universal serial bus (USB)
- B) Parallel
- C) FireWire
- D) Ethernet

Answer: A

Diff: 2

Objective: 2.12 Describe common types of ports used today.

27) To connect a peripheral device to a computer to exchange data, find the appropriate _____ for the device.

- A) port
- B) drive
- C) slot
- D) expansion bus

Answer: A

Diff: 2

Objective: 2.12 Describe common types of ports used today.

28) Which computer port transmits audio and video without the need for compression?

- A) VGA
- B) USB
- C) HDMI
- D) RGA

Answer: C

Diff: 2

Objective: 2.12 Describe common types of ports used today.

29) Which of the following is NOT a goal of green IT?

- A) Cleaning waterways with repurposed computers
- B) Reduce use of electricity
- C) Use technology to reduce travel
- D) Use technology as long as possible

Answer: A

Diff: 2

Objective: 2.11 Describe the various means of storing data and information with computing devices.

30) All of the following are ways to avoid injuries when working on computers EXCEPT _____.

- A) placing a monitor at least 12" from the eyes
- B) purchasing an adjustable chair
- C) ensuring proper lighting
- D) taking breaks

Answer: A

Diff: 3

Objective: 2.14 Define ergonomics, and discuss the ideal physical setup for using computing devices.

31) The _____ is the biggest power consumer on a computing device.

- A) display
- B) hard drive
- C) memory module
- D) CPU

Answer: A

Diff: 1

Objective: 2.13 Describe how to manage power consumption on computing devices.

32) _____ is concerned with the design and arrangement of machines and furniture to avoid uncomfortable or unsafe experiences.

- A) Ergonomics
- B) Positioning
- C) Occupational safety
- D) Repetitive strain prevention

Answer: A

Diff: 2

Objective: 2.14 Define ergonomics, and discuss the ideal physical setup for using computing devices.

33) _____ is a representation of a fact, a figure, or an idea and can be a number, a word, a picture, or even a recording of sound.

Answer: Data

Diff: 1

Objective: 2.01 Describe the four main functions of a computer system and how they interact with data and information.

34) _____ is the set of computer programs that allows the hardware to perform different tasks.

Answer: Software

Diff: 1

Objective: 2.02 Define bits and bytes, and describe how they are measured, used, and processed.

35) A(n) _____ is a computer that is designed to execute a few programs extremely rapidly.

Answer: supercomputer

Diff: 2

Objective: 2.03 List common types of computers, and discuss their main features.

36) A(n) _____ device is a component, such as a keyboard, that connects to the computer.

Answer: peripheral

Diff: 2

Objective: 2.03 List common types of computers, and discuss their main features.

37) A _____ is approximately 1000 bytes.

Answer: kilobyte; KB

Diff: 3

Objective: 2.02 Define bits and bytes, and describe how they are measured, used, and processed.

38) Microphones and scanners are examples of _____ devices.

Answer: input; peripheral

Diff: 1

Objective: 2.06 Explain how images, sounds, and sensor data are input into computing devices.

39) _____ is a wireless transmission standard that lets you connect mobile computing devices to peripheral devices over short distances.

Answer: Bluetooth; Bluetooth technology; WiFi; wireless; wi-fi; wi fi

Diff: 2

Objective: 2.04 Identify the main types of keyboards and touch screens.

40) Display screens that respond to commands initiated with your finger or a stylus are called _____ screens.

Answer: touch

Diff: 1

Objective: 2.04 Identify the main types of keyboards and touch screens.

41) A desktop computer's _____ is the case that houses the main components of the computer and where peripheral devices connect.

Answer: system unit; tower

Diff: 2

Objective: 2.03 List common types of computers, and discuss their main features.

42) The _____ keyboard layout gets its name from the first six letters in the top-left row of alphabetic keys on the keyboard and is the most common English-language keyboard layout.

Answer: QWERTY

Diff: 2

Objective: 2.04 Identify the main types of keyboards and touch screens.

43) Joysticks and steering wheels are examples of _____ controllers.

Answer: game

Diff: 1

Objective: 2.05 Describe the main types of mice and pointing devices.

44) A(n) _____ is a small video camera that sits on top of a monitor or is built into a computing device and can be used to transmit live video.

Answer: webcam

Diff: 2

Objective: 2.06 Explain how images, sounds, and sensor data are input into computing devices.

45) A(n) _____ microphone picks up sounds coming from all directions at once and is well suited for conference calls.

Answer: omnidirectional

Diff: 3

Objective: 2.06 Explain how images, sounds, and sensor data are input into computing devices.

46) The width-to-height proportion of a monitor is known as the _____.

Answer: aspect ratio

Diff: 2

Objective: 2.07 Describe options for outputting images and audio from computing devices.

47) Monitors display images by using a grid made up of millions of tiny dots, called _____.

Answer: pixels

Diff: 2

Objective: 2.07 Describe options for outputting images and audio from computing devices.

48) The length of time it takes for a processor to request, locate, open and deliver information stored in RAM is measured in _____.

Answer: nanoseconds; billionths of a second

Diff: 2

Objective: 2.09 Describe the functions of the motherboard and RAM.

49) Each pixel on the newest 4K resolution TVs and monitors is actually made up of four yellow, red, blue, and green _____.

Answer: subpixels; sub pixels; sub-pixels

Diff: 3

Objective: 2.07 Describe options for outputting images and audio from computing devices.

50) A(n) _____ is a device that combines the functions of a printer, scanner, copier, and fax machine into one unit.

Answer: all-in-one printer; all in one printer

Diff: 2

Objective: 2.08 Describe various types of printers, and explain when you would use them.

51) The "brains" of the computer is the _____.

Answer: CPU; central processing unit; processor; microprocessor

Diff: 2

Objective: 2.10 Explain the main functions of the CPU.

52) An SD card is an example of a(n) _____ card.

Answer: flash memory; memory; secure digital

Diff: 2

Objective: 2.11 Describe the various means of storing data and information with computing devices.

53) CDs, DVDs, and _____ discs are examples of optical storage.

Answer: Blu-ray; BD; bluray

Diff: 2

Objective: 2.11 Describe the various means of storing data and information with computing devices.

54) _____ is a technology most frequently used for credit and debit card processing

Answer: Near field communication; NFC

Diff: 2

Objective: 2.07 Describe options for outputting images and audio from computing devices.

55) _____ mode puts the computer in low power usage, but keeps programs in RAM.

Answer: Sleep

Diff: 2

Objective: 2.13 Describe how to manage power consumption on computing devices.

56) _____ is a power-saving mode that stores data to a computer's hard drive instead of to its memory.

Answer: Hibernate

Diff: 2

Objective: 2.13 Describe how to manage power consumption on computing devices.

57) Information is data that has been organized or presented in a meaningful fashion.

Answer: TRUE

Diff: 2

Objective: 2.01 Describe the four main functions of a computer system and how they interact with data and information.

58) A smartphone is a type of computer.

Answer: TRUE

Diff: 1

Objective: 2.03 List common types of computers, and discuss their main features.

59) The operating system controls how your computer functions.

Answer: TRUE

Diff: 1

Objective: 2.02 Define bits and bytes, and describe how they are measured, used, and processed.

60) The terms *data* and *information* can be used interchangeably.

Answer: FALSE

Diff: 1

Objective: 2.01 Describe the four main functions of a computer system and how they interact with data and information.

61) Processing is manipulating, calculating, or organizing data into information.

Answer: TRUE

Diff: 2

Objective: 2.01 Describe the four main functions of a computer system and how they interact with data and information.

62) On a keyboard, Num Lock and Caps Lock are both toggle keys.

Answer: TRUE

Diff: 1

Objective: 2.04 Identify the main types of keyboards and touch screens.

63) Laser printers are usually faster at printing in black and white than inkjet printers.

Answer: TRUE

Diff: 3

Objective: 2.08 Describe various types of printers, and explain when you would use them.

64) All printers can print from smartphones and tablets.

Answer: FALSE

Diff: 3

Objective: 2.08 Describe various types of printers, and explain when you would use them.

65) Game controllers are output devices.

Answer: FALSE

Diff: 1

Objective: 2.05 Describe the main types of mice and pointing devices.

66) Keyboards that display on-screen when text input is required are known as virtual keyboards.

Answer: TRUE

Diff: 2

Objective: 2.04 Identify the main types of keyboards and touch screens.

67) Starting a computer when it is powered off is called a warm boot.

Answer: FALSE

Diff: 2

Objective: 2.13 Describe how to manage power consumption on computing devices.

68) The area that holds all of the instructions the computer needs to start up is called RAM.

Answer: FALSE

Diff: 2

Objective: 2.09 Describe the functions of the motherboard and RAM.

69) Today's CPUs run at speeds measured in kilohertz.

Answer: FALSE

Diff: 2

Objective: 2.10 Explain the main functions of the CPU.

70) Match each of the following terms to its meaning:

I. CPU

II. OLED

III. QWERTY

IV. ROM

V. RAM

A. holds start up instructions needed when the computer is powered on

B. standard keyboard layout

C. processes commands issued by software instructions

D. more energy efficient than LCD monitors

E. stores programs and data the computer is currently using

Answer: C, D, B, A, E

Diff: 2

Objective: Multiple Objectives in the Chapter

71) Match each of the following terms to its meaning:

- I. data
- II. processing
- III. information
- IV. software
- V. hardware

- A. represents a fact, figure, or idea
- B. data organized in a meaningful way
- C. physical components of a computer
- D. turning data into information
- E. computer programs

Answer: A, D, B, E, C

Diff: 2

Objective: Multiple Objectives in the Chapter

72) Rank the following from smallest capacity to largest capacity:

- I. terabyte
- II. gigabyte
- III. kilobyte
- IV. megabyte
- V. petabyte

- A. largest
- B. second largest
- C. third largest
- D. fourth largest
- E. fifth largest

Answer: B, C, E, D, A

Diff: 2

Objective: 2.02 Define bits and bytes, and describe how they are measured, used, and processed.

73) Match each of the following terms to its meaning:

- I. input device
- II. peripheral device
- III. output device
- IV. motherboard
- V. system unit

- A. case that houses the electronic components, power source, and storage devices of a desktop computer
- B. main circuit board containing the central electronic components of a computer
- C. used to enter data
- D. external device that exchanges data with the computer through ports
- E. displays processed data

Answer: C, D, E, B, A

Diff: 2

Objective: Multiple Objectives in the Chapter

74) Match each of the following terms to its meaning:

- I. pixel
- II. hertz
- III. bit
- IV. ppm
- V. dpi

- A. measurement of printing speed
- B. unit of measure for processor speed
- C. tiny dot that creates an image on the computer monitor
- D. measurement of printer resolution
- E. 0 or 1

Answer: C, B, E, A, D

Diff: 3

Objective: Multiple Objectives in the Chapter