

Lesson 1 – Computers and Computer Systems
Lesson Review and Projects

True/False

Indicate if statement is True (T) or False (F)

1. ROM chips are found throughout a computer system.
2. When data is stored on a disk, it is stored in circles called tracks.
3. The faster the machine cycle, the faster your computer processes data.
4. A supercomputer is the slowest type of computer.
5. The primary sections of the CPU are the arithmetic/logic unit and the control unit.

Multiple Choice

Select the best response for the following statements.

1. A _____ consists of hardware, software, data, and users.
 - a. Client
 - b. Node
 - c. Mobile Device
 - d. Computer System
2. A _____ is a personal computer you can use to take notes with a stylus or digital pen on a touch screen.
 - a. Mainframe computer
 - b. Notebook computer
 - c. Tablet PC
 - d. Mobile device
3. A computer system includes which of the following?
 - a. Hardware
 - b. Data
 - c. Software
 - d. All of the above
4. Random access memory (RAM) is _____.
 - a. Permanent
 - b. Volatile
 - c. Nonvolatile
 - d. The same as ROM
5. The main advantage of _____ storage media is that they process data electronically and contain no mechanical parts.
 - a. Optical storage
 - b. Solid-state
 - c. 3 ½ inch
 - d. Input

Fill In the Blanks

1. The instruction cycle and the execution cycle create a(n) _____ cycle.
2. A computer manufacturer uses a(n) _____ chip to store specific instructions that are needed for computer operations.
3. You can think of RAM as _____ -term memory.
4. The _____ unit coordinates all of the processor's activities.
5. Optical storage devices use _____ technology to read and write data.

Project 1-2

Using the Internet or other resources, research the history of computers. For the first part of this project, find the answers to the following questions:

1. What was the name of the first commercially available electronic digital computer?
2. In what year was the IBM PC first introduced?
3. What software sent Bill Gates on his way to becoming one of the richest men in the world?
4. In what year did Apple introduce the Macintosh computer?
5. What is the name of the first computer game invented?

Using your PowerPoint/Google Slides to answer each of these questions and provide some additional historical facts. Use a slide per question.

Slide 6: For the second part of this project, learn about the history of the central processing unit. Launch your Web browser and open the home page for Wikipedia at www.wikipedia.org. When the Web site is displayed, enter CPU as the search text. On the Central processing unit page, click the History link.

Project 1-3

Using Google or another search engine, find an image of a computer system with the case removed. Print a copy of the image or capture a screen shot and copy and paste it into a word-processing document.

Label the following:

1. Motherboard and the components connected to the motherboard.
2. Locate and identify the number of available expansion slots.
3. Locate the RAM chips.
4. See if you can find the CPU. Can you see the chip itself?
5. What other elements are visible?

You may use a picture already labeled to guide you but you may NOT turn that copy in.

Critical Thinking

You are purchasing a new computer and have the option to include a variety of storage devices. Research the storage devices listed in this chapter.

Use a Word/Google Document to list what your dream computer would have on and in it (ie. Programs, mouse, keyboard, memory, etc.) Minimum of 7 things listed.