



Name: _____

Hardware, Software and Operating Systems Review

This review covers notes and class discussions from the lesson we did on Hardware, Software, and Operating Systems Unit. The review will help you review and let you know what you need to study.

Directions: Answer the questions to the best of your ability. **When you are finished**, take out your notes and check your answers.

1. A computer is a _____ that uses _____ to do _____.
2. There are a few components that must be included in a computer for it to be *defined* computer.

They are:

- a. P _____
 - b. M _____
 - c. S _____
 - d. I _____
 - e. O _____
3. List three items in your home that need a computer to function.
 - a.
 - b.
 - c.
 4. List three items (*not places*) in your community that use or contain computers.
 - a.
 - b.
 - c.



5. List three input devices and three output devices.

Input 1

Output 1

Input 2

Output 2

Input 3

Output 3

6. Arrange the three types of computers from largest (1) to smallest (5).

____ Mainframe ____ Personal Desktop ____ Laptop ____ Tablet ____ Supercomputer

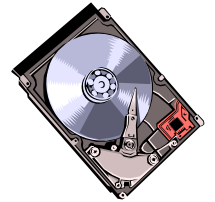
7. Explain the difference between hardware and software.



8. Explain the difference between application software and system software (operating system). Include 1 example of each.

9. List two examples of utility software.

- a.
- b.



10. List three examples of file storage devices.

- a.
- b.
- c.

11. Name three types of ports and what would plug into them.

- a.
- b.
- c.

12. List three types of memory you might find in a computer device.

- a.
- b.
- c.

13. Complete the table:

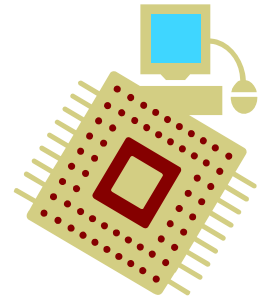
Each disk can hold about how much (in MB, GB)?	
Disk	Files
Floppy disk	
CD/ROM	
DVD/ROM	



14. Which type of port can accept any type of computer device? _____
15. Which type of file storage device do you install applications onto? _____
16. Which type of file storage device is used mostly for multimedia? _____
17. How many pins does a parallel port and cable have? _____
18. How many pins do video ports and cables have? _____
19. Which part of the computer saves the system date and time? _____
20. What type of memory is stored in chips on the motherboard? _____
21. Tablet memory that can be used for storage *and* RAM is ...? _____

22. Which part of the computer:

- a. does the math? _____
- b. powers the CD-ROM drive? _____
- c. stores file and applications? _____
- d. let's you plug in a printer? _____



23. Explain the difference between a CD-ROM disk and a CD-ROM drive.

24. How is RAM used by the computer?

25. What happens to data in RAM when the computer is turned off?

26. Explain how virtual memory works.

27. What is an expansion card? List two examples.

28. Think about it: Why do computers need software?

29. When you turn on your computer, the _____ loads. Then the _____ loads small software programs called _____ that run devices like the video, keyboard, and mouse.

30. Name one or two operating systems that can be used on each type of computer we discussed.

- Regular PC
- Apple computer
- Sun Station

31. Draw lines to match each PORT to the DEVICE that uses it.

15 pin

Printer or Scanner

25 pin

Keyboard or Mouse

PS/2

Network cable

LAN

Monitor

32. If you have time, draw a picture of how your ideal computer would look.