A TYPICAL PC

A. Essentials.



What is the type of computer like? What parts of a computer are in the pictures? What is the function of each part?

B. Parts of a computer.

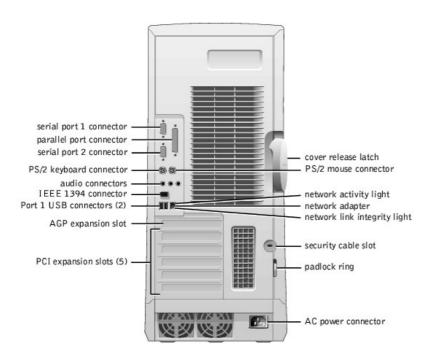
A computer is an electronic machine that accepts, processes, stores and outputs information. A typical computer consists of two parts: hardware and software.

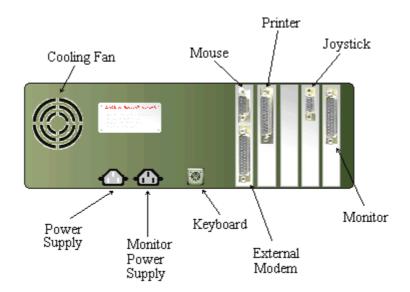
Hardware is any electronic or mechanical part of the computer system that you can see or touch

Software is a set of instructions, called a program, which tells a computer what to do. There are three basic hardware sections.

- 1. The **CPU** is the heart of the computer, a microprocessor chip which processes data and coordinates the activities of all the other units.
- The main memory holds the instructions and data which are being processed by the CPU. It has two main sections: RAM (Random Access Memory) and ROM (Read-Only Memory).
- 3. **Peripherals** are the physical units attached to the computer. They include:
 - **Input devices**, which let us enter data and commands (for example, the keyboard and the mouse).
 - **Output devices**, which let us extract the results (for example, the monitor and the printer).
 - **Storage devices**, which are used to store information permanently (for example hard disks and DVD-RW drives).
 - Disk drives are used to read and write data on disks.

At the back of the computer there are **ports** into which we can plug external devices (for example, a scanner, a modem, etc.). They allow communication between the computer and the devices.





The back of a computer

C. Functions of a PC: input \rightarrow processing \rightarrow output \rightarrow storage

Input: We enter data with a keyboard, a webcam, etc.

Processing: The data is manipulated according to program instructions.

Storage: We keep programs and data in memory systems where they are available for processing.

Name the input, output and storage devices you can remember.

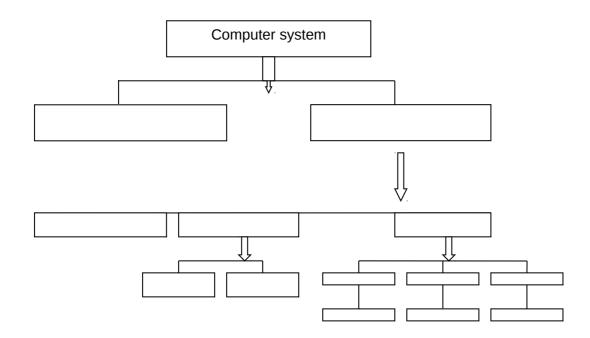
1. Complete the exercises below. Say which computer essential they refer to.

- 1. »Accelerate your digital lifestyle by choosing a Pentium at 4.3 GHz.«
- 2. »Right-click to display a context-sensitive menu.«
- 3. »You will see vivid, detailed images on a 17« display.«
- 4. »This will produce high-quality output, with sharp text and impressive graphics.«
- 5. »Use it when you want to let the grandparents watch the new baby sleeping.«
- 6. »Press any key to continue«.

2. Match the terms with their definitions.

- 1) CD/DVD drive
- a) any socket into which a peripheral device may be connected
- 2) speaker
- b) device used to produce voice output and play back music
- 3) modem
- c) mechanism that reads and/or writes to optical disks
- 4) port
- d) device that converts data so that is can travel over the Internet

3. Read 'The Parts of a computer' and label this diagram with the correct terms.



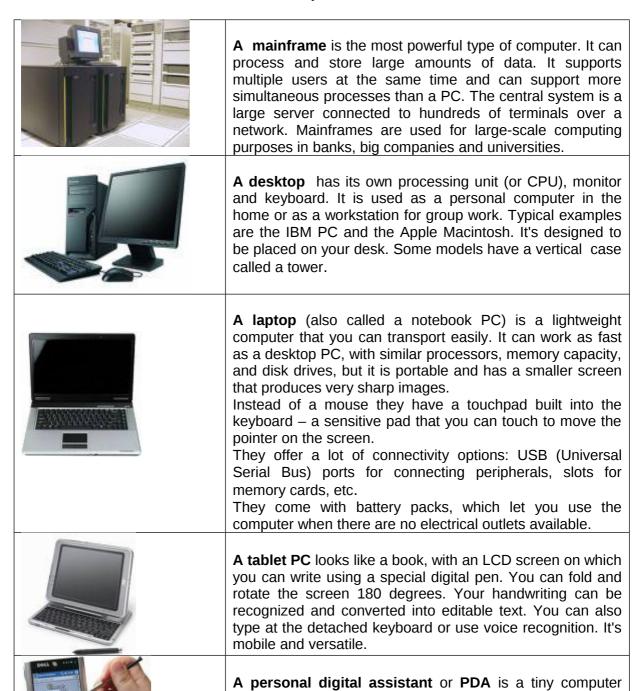
4. Complete the diagram and sentences below with words from 'Functions of a PC'. Functions of a computer

1. Computer	is the	e visible or audible	result of data	orocessing –
information that can be	e read. printed	or heard by the use	er.	

- 2. The CPU will process data as instructed by the programs you're running.
- 3. DVDs are expected to replace CDs as ______ devices.4. As a scanner, the Sigma 100 can be used to ______ photographs as well as documents into the computer.

TYPES OF COMPUTER SYSTEMS

A. From mainframes to wearable computers



which can be held in one hand. The term PDA refers to a wide variety of **hand-held** devices, palmtops and pocket

For input, you type at a small keyboard or use a **stylus** – a special pen used with a **touchscreen** to select items, draw pictures, etc. Some models incorporate **handwriting recognition**, which enables a PDA to recognize characters written by hand. Some PDA's recognize spoken words by

They can be used as mobile phones or a personal

using **voice recognition** software.

4

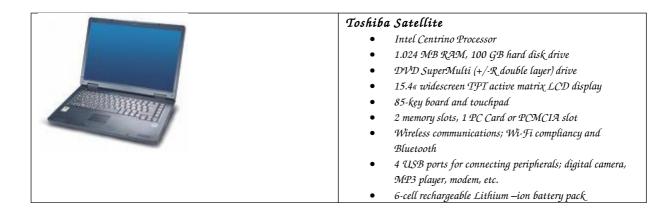
organizers for storing notes, reminders and addresses. They also let you access the Internet via wireless technology, without cables.
A wearable computer runs on batteries and is worn on the user's body, for example on a belt, backpack or vest; it is designed for mobile or hands-free operation. Some devices are equipped with a wireless modem, a small keyboard and a screen; others are voice-activated and can access email or voice mail.

1. Which type of computer do these descriptions refer to?

- 1. a hand-held computer which can be used as a telephone, a web explorer and a personal organizer
- 2. a typical computer found in many businesses and popular for home users
- 3. a large computer used for intensive data processing and often linked to many terminals
- 4. a small computer that fits into items of clothing
- 5. a portable computer that can be closed up like a briefcase, but it can be as powerful as a desktop PC
- 6. a full-function PC, though it only weighs 1.2 kg you can go to a meeting and write your notes on it, like a paper notepad; its screen mode can be changed from portrait to landscape.

2. Look at the computer advertisement and find this information.

- 1. What type of a computer is advertised?
- 2. What kind of screen does it have?
- 3. Which pointing device replaces the mouse?
- 4. What type of ports does it have for connecting cameras and music players?
- 5. What sort of power supply does it use?



3. Read this interview with Adam Hawkins, an IT manager, and complete it with words from the 'PDA' section.

Interviewer: What are the basic features of a PDA? Adam: Well, a typical PDA is a 1) device that runs on batteries and combines computing, phone and Net capabilities. Inteviewer: And how do you enter information?				
Adam: For input, you use a 2) or pen to write and make selections on a 3) ; they also have buttons for launching programs. Some models have a small keyboard. They may have a 4) system that reacts to the user's voice.				
Interviewer: Do they need special software? Adam: Yes, most of them run on <i>Windows Mobile</i> . Palmtops supported by Palm Inc. <i>Palm OS</i> . Pen-based systems include 5), so you write on the screen and the computer recognizes your handwriting and inserts the appropriate letters. Interviewer: What sort of things can you do with a PDA?				
Adam: You can store personal information, take notes, draw diagrams and make calculations. Many PDAs can access the Net via 6) technology.				
Writing. a. Write down two benefits and two limitations of a PDA.				
b. Explain shortly how laptops can be beneficial to business people.				
c. Write down three examples of how tablet PCs can be used in the classroom.				