

BAL BHARATI PUBLIC SCHOOL, PITAM PURA, DELHI-110034

CLASS IV Subject: Computer Term I (2020-21)

Lesson 1 : Computer- Its Classification(REVISION)

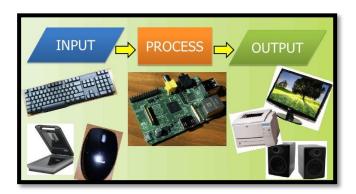
Name	Class IV Sec	Date - 27.05.2020

In this document we will cover the following topics:

- a) What is a Computer?
- b) Classification of Computers
- c) Classification of Computers according to Purpose

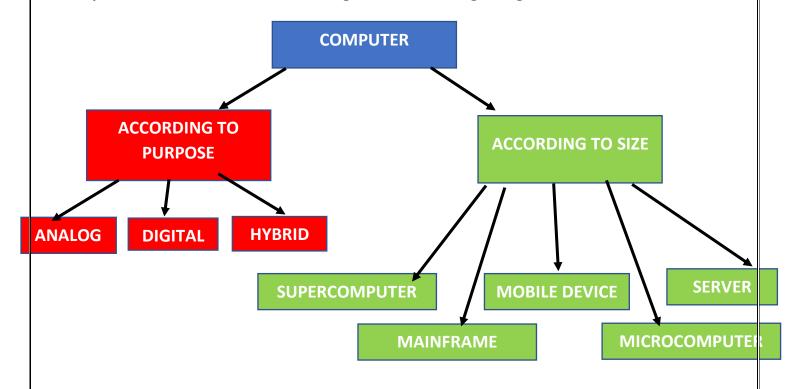
Computer

A computer is an electronic device that takes in instructions (INPUT), processes them (PROCESS) and gives the result (OUTPUT).



Classification of Computers

Computers can be classified according to the following categories:



CLASSIFICATION OF COMPUTERS ACCORDING TO PURPOSE

ANALOG	DIGITAL	HYBRID
An ANALOG COMPUTER takes different input and	A DIGITAL COMPUTER works on the principle of	A HYBRID COMPUTER is a combination of both
gives an approximate	Binary Mathematics (0 & 1)	ANALOG and DIGITAL
result.	Examples:	computer.
Examples:	Laptop	Examples:
Thermometer Speedometer	Digital Wrist Watch	ECG Machine
Voltmeter PeakTech 3296 OVERTICAL TO THE TOTAL	Calculator	

Do the following in the book OR in any notebook (if you do not have the book) [scanned pages of the book are attached below for your reference]

Pg 12: QE part 1

Pg 12: QF part 1



N Computer - Its Classification

Topics Covered

•What is a Computer? •Classification of Computers •According to Purpose •According

Hi friends! Welcome to the new class. Till now, you must be familiar with the computer. Now it's time to learn the different types of computers available today.



What is a Computer?

A computer is an electronic machine that takes instructions from us and gives the result after processing them.

Computer works very fast and can do millions of tasks in a second. It can be classified into different ways according to its different shapes, sizes, and working.



Classification of Computers

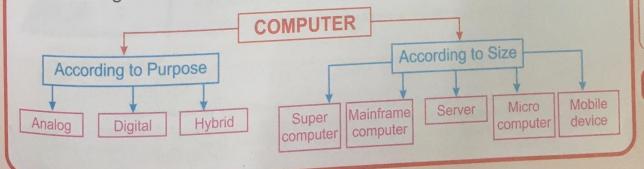
A computer that is used at home differs in size and shape from the computer used by scientists for research.

Basically, a computer can be classified into two ways:

According to Purpose

According to Size 2.

The following chart shows you the classification of computers:



According to purpose, computers can be categorized into three types:

ANALOG COMPUTER

An analog computer takes different inputs and gives an approximate result works on the principle of analogous data. after comparison. It works on the principle of analogous data.

A clinical thermometer, voltmeter, speedometer, fuel gauge, and scale machine are some of the examples of Analog computers.









Thermometer

Voltmeter

Speedometer

Fuel Gauge

Scale Machine

DIGITAL COMPUTER

A digital computer works on the principle of binary mathematics. In binary mathematics, all calculations are represented as 'o' and '1'.

Microcomputer, laptop, digital wrist watch, calculator, etc., are some of the examples of digital computers.









Microcomputer

Laptop Computer

Digital Wrist Watch

Calculator

HYBRID COMPUTER

Hybrid computers are the combination of both analog and digital computers. A hybrid computer system offers a cost-effective method that is used to perform complex simulations.

An example of hybrid computer is the ECG machine used in hospitals to measure the heartbeat of patients. We use hybrid computers in weather forecasting too.



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Update Your Knowledge

- The first electronic digital computing device was Atanasoff-Berry Computer (ABC).
- The world's first commercial electronic digital wrist watch was introduced by Hamilton. The biggest digital clock is the Lichtzeitpegel ('Light Time Lever') on the television tower

According to Size

According to size, the computers are classified into five groups:

SUPERCOMPUTER

Location:

Description: Supercomputer is the biggest and the most powerful

computer. It is a very expensive computer. It can perform

large and complex calculative tasks at a very high speed.

It is the biggest computer. It is as big as the size of a room. Size:

They are found in big organizations. Speed: They can process 1 trillion instructions per second.

Uses: Supercomputer is used in weather forecasting, nuclear power

stations, military simulation, research laboratories, and

animation movies.



Supercomputer

MAINFRAME COMPUTER

Mainframe is also a large and powerful computer, but it is less Description:

powerful than a Supercomputer. It is also an expensive computer. Mainframe has a capacity to host multiple

operating systems. Mainframe computer was first developed

by IBM.

It is large, normally the size of a closet. Size:

It is mostly found in large business Location:

houses or government centres.

It can process up to millions of instructions Speed:

per second.

It is mostly used for scientific research and Uses:

doing bulk mathematical operations.



Mainframe

IT PLANET - 4 (WINDOWS 10)

Description:

Size:

Server is the lifeblood of any network. It controls access to the hardware, software, and other resources on a network and provides a centralized storage area for programs, data, and information.

Some servers are big and some are small. It all depends upon

their usage.

It is mostly found in offices, Location:

banks, and schools.

Speed of servers is increasing Speed:

day-by-day.

Servers support from two to Uses:

several thousand connected computers at the same time.



Server

MICROCOMPUTER

A microcomputer is often called a Personal Computer (PC). It Description:

is the smallest of all the computers. The most important part of a microcomputer is microprocessor, also called its brain. Peripherals such as keyboard, mouse, and monitor are parts

of a microcomputer system.

Size: Designed to be small enough to be used by a single person.

Location: It is mostly found in offices, homes, and schools.

Speed: Speed of a microcomputer is increasing day-by-day. Uses:

Used for creating documents, doing calculations, keeping

records, etc.

Desktop Computers and Notebook Computers are the type of Microcomputer.

Update Your Knowledge

- The first supercomputer was CRAY-I, developed by CRAY Research Inc., USA. The world's fastest Supercomputer according to Top 500 Super computers in the list of 2009 is Cray
- The first Indian Supercomputer is PARAM 8000. IBM Roadrunner was crowned No. 1 in June 2009

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Desktop Computer

A desktop computer is a computer made for use on a desk in schools, homes, and offices. A desktop computer is designed in such a way that the system unit, input devices, output devices, and all other devices fit entirely on a desk or a table.





Notebook Computer

A notebook computer is also called a laptop. A notebook computer is a small, lightweight computer that you can easily carry from one place to another. A notebook computer has a built-in keyboard, touchpad, and display screen.

MOBILE DEVICES

Description: A Mobile device is used to store data permanently on the

memory inside it or on small storage media such as memory

cards.

Size: Small enough to carry in a bag or a pocket.

Location: It is mostly found everywhere.

Speed: Speed of mobile device is increasing day-by-day.

Uses: It can also be connected to a personal computer for

exchanging information.

Tablet PC, Smartphones, E-book Readers, Smartwatches, Digital Camera, and Game Console are the types of Mobile devices.

Tablet PC

Tablet PC is a special type of portable computer which has a touch screen. You can use a tablet by **touching** the screen with your **finger** or a **digital pen**. Nowadays, latest tablets resemble smartphones; the only difference is that they are larger than smartphones.



Smartphone is an Internet-enabled phone. In addition to basic phone facilities, it allows you to send and receive e-mail messages and access the Internet, usually for an additional fee. Many smartphones also function as a media player, and include a digital camera so that you can capture an image and share it with others.





E-book Reader

An e-book reader (short for electronic book reader) is a handheld device that is used primarily for reading e-books. E-book is the electronic version of a printed book. Most ebook readers have a touch screen and are Internet-enabled.

Smartwatch

A smartwatch is a mobile device with a touchscreen display, designed to be worn on the wrist. It can either work on its own or paired with a smartphone. It can show you the time, track your physical activities and show notifications like messages, emails, calls, and social networks.





Digital Camera

A digital camera is a mobile device that allows users to take pictures and store photographed images digitally, instead of traditional film. After taking the photograph, you can download a copy of the image from the digital camera to the hard disk of the computer.

Game Console

A game console is a mobile computing device designed for single player or multi-player video games. Standard game consoles use a handheld controller as an input device; a television screen as an output device; and hard disks, optical discs, and memory cards for storage. Three popular models are Microsoft Xbox 360, Nintendo Wii, and Sony



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In a Nutshell

- Computers are classified in two ways: according to purpose and according to size.
- According to purpose, computers are classified into three categories: Analog, Digital, and Hybrid.
- According to size, computers are classified into five categories: Supercomputers, Mainframe, Server, Microcomputer, and Mobile devices.

T	Exercises
A.	Tick [✓] the correct answer. 1. The computer that gives an approximate result after comparison is a. Digital b. Micro c. Analog 2. The computer that works on the principle of binary mathematics is a. Hybrid b. Digital c. Analog 3. An example of Mobile device is a. Desktop b. Mainframe c. Smartphone 4. A notebook computer is also called a
В.	 Write 'T' for True and 'F' for False statements. Supercomputers are used in schools and offices. Many users can work simultaneously on a Mainframe computer. Desktop computers can be carried around conveniently. Mobile computers are the largest computers. Digital camera is a mobile device that allows users to take pictures.
C.	Fill in the blanks. 1. In computer, all calculations are represented as 'o' and '1' 2. Microcomputers are also called

3. is a mobile device designed to be worn on the wrist.

4. is one of the popular models of game console.

Match the following.	a. Game Console	
1. Desktop	b. Developed by IBM	
2. Tablet PC	c. Is placed on a table or a desk	
3. E-book	d. Electronic book	
4. Sony PlayStation	e. Has a touch screen	
5. Mainframe Computer		
E. Differentiate between the following 1. Analog Computer	ng. Digital Computer	
2. Supercomputer	Mainframe	

F. Answer the following questions.	1-25-15	
1. On which basis can computers be	classified:	
2. What is the use of server?		

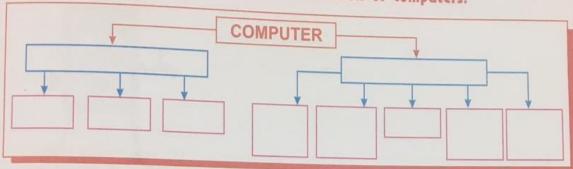
***************************************	***************************************	
3. What do you mean by Microcom	puter? Name its types.	
G. Application Based Question		

G. Application Based Question.	***************************************	
You are going		
you think you should carry that v touch with your family and would	o organized by your school. Which device vould give you the convenience to keep serve a variety of purposes?	do

Activity Section

Activity Label

Label the following chart showing classification of computers.



Activity Match

Match each image in the middle column with a line which best describes it in the left and right columns.

Fit entirely on a desk or a table

It is normally the size of a closet.

Also function as a media player and a digital camera

A small and portable computer



Mostly found in schools, homes, and offices

An Internetenabled phone

Mostly found in government centres

Has a built-in keyboard and a display screen

Project Work

Collect pictures of different types of computers from newspapers or magazines and paste them in your activity book.

Group Discussion

Divide the students into two groups and discuss the topic, 'Different Types of Mobile Devices'.

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