

1

Preparation of Computer Specifications

Activity 1.1



Select the most suitable expression from the list of expressions given, to fill the blanks.

List of expressions

- | | |
|-----------------------|----------------------|
| ① Server computer | ④ Laptop computer |
| ② Desktop computer | ⑤ Mobile smart phone |
| ③ All-in-one computer | ⑥ Tablet computer |

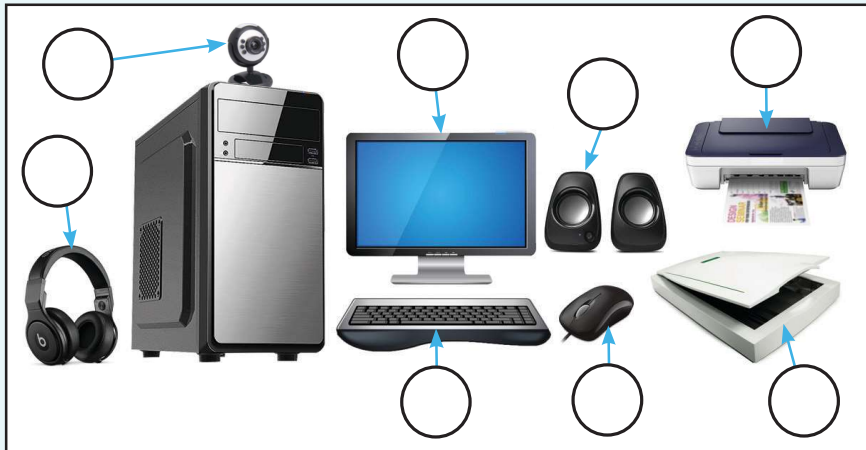
- a). The can be used in a single location such as home or office.
- b). The is dedicated to provide respective services in a network.
- c). The has a comparatively large screen and can be taken from place to place
- d). Mobile computers, the student can use for and surfing Internet reading, storing information, refer electronic dictionaries are (i) and (ii)
- e). The cannot be taken from place to place, use least space and have several peripheral devices connected to the monitor.

Activity 1.2



Name the peripheral devices in the image below. Use the number for the expressions given in the list.

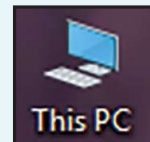
- | | | |
|------------|--------------|--------------|
| ① Monitor | ④ Head phone | ⑦ Mouse |
| ② Printer | ⑤ Scanner | ⑧ Web camera |
| ③ Keyboard | ⑥ Speaker | |



Activity 1.3



Right click on the "This PC" icon and select "Properties" to check the specifications of the processor.



System

View basic information about your computer

Windows edition

Windows 10 Pro

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System

Processor: Intel(R) Core(TM) i5-5200U CPU @ 2.20GHz 2.20 GHz

Installed memory (RAM): 4.00 GB

System type: 64-bit Operating System

Pen and Touch: No Pen or Touch Input

Computer name, domain, and workgroup settings

Computer name: DESKTOP-OJ6G388

Full computer name: DESKTOP-OJ6G388

Computer description:

Workgroup: WORKGROUP

Main memory 4 GB

Manufacturer - (Intel)
CPU type - (Core i5)
CPU speed - (2.2 GHz)

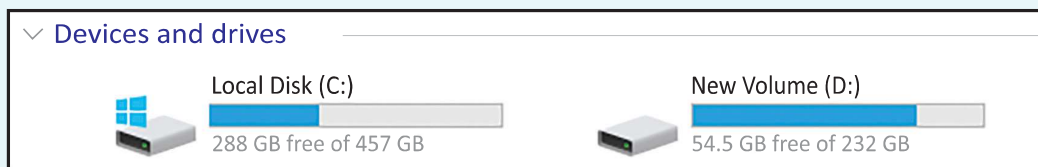
Examine the processor of a few computers and complete the table given below.

Name of manufacturer	Type of processor	Speed (in units)

Activity 1.4



Calculate the capacity of the hard disk. To check the hard disk capacity, double click on the icon 'This PC'. Hard disk is shown as "Local Disk" under "Devices and Drives". Sometimes local disk is divided into two as local disk C: and local disk D:. The capacity for both are taken together to calculate the hard disk capacity.



Compare the hard disk capacity of several computers.

Activity 1.5



Examine the capacity of the Random Access Memory (RAM) in a few computers and compare them.

Activity 1.6



Study the specifications given in the following table. Answer the questions that follow.

Central Processing Unit	Intel® Core™ i7 3.70 GHz
Random Access Memory	4 GB
Hard disk capacity	2 TB
Computer screen	18.5"
Computer system	Windows 10
Guarantee period	3 years
Price	Rs 75000.00

1. State 3 technical specifications of the computer.
2. Give 2 non-technical specifications when buying a computer.
3. Give the speed of the processor.
4. State the type of the processor.
5. Find the capacity of the main memory.
6. Give the capacity of the hard disk.
7. State the size of the screen.
8. Compare the technical specifications given above with those of some other computer in your school or in another place.

Activity 1.7



By considering the important points in buying a computer, fill in the blanks in the statements given below by selecting the relevant term from the given list.

1. The speed of the processor is given in
2. It is better to select a monitor in size and consumes electricity.
3. The capacity of a main memory is given in
With an extended period of warranty, the cost of a computer
4. The capacity of a hard disk is measured in
5. The capacity of main memory is than the capacity of a hard disk.

List of expressions

(less, GB, large, GHz, Terra Byte (TB), less, goes up)

Activity 1.8



Given below are technical specifications about two computers A and B. Compare them and answer the questions that follow.

Specifications	Computer A	Computer B
Processor	Intel® Core™ i3 2.40 GHz	AMD® Core 2.0 GHz
Main memory capacity	4 GB	2 GB
Hard disk capacity	1 TB	500 GB
Size and type of monitor	19.5" LED	17 " CRT
Operating system	Windows 10	Ubuntu
Period of warranty	1 Year	3 Years
Price	Rs. 65000.00	Rs. 58000.00

1. Who is the manufacturer of the processor in the computer B?
2. Which computer has a main memory with a higher capacity?
3. Which computer has the larger screen?
4. Which computer has a hard disk with a lesser storage capacity?
5. Give three possible reasons for computer A to cost more.
6. State two non-technical specifications.

Activity 1.9



Classify the peripherals that can be connected to the USB port as input, output and storage.

Input devices	Output devices	Storage devices

Activity 1.10









Refer Figure 1.19 in textbook to find answers to the following questions.





- a. List out technical specifications other than those mentioned.
- b. List out other non-technical specifications than the ones mentioned.

Activity 1.11



1. In order to prepare specifications for a computer you wish to purchase, complete the given table on the next page using the relevant data from the following table.

Device	Type	Speed	Price
Processor		2.4 GHz	4000.00
		3.2 GHz	6000.00
		1.8 GHz	8000.00
		2.4 GHz	10000.00
		1.6 GHz	12000.00
		2.2 GHz	14000.00
Hard disk	HDD 	500 GB	3000.00
		1 TB	5000.00
	SSD 	120 GB	4000.00
		240 GB	6000.00
Monitor		17"	15000.00
		19"	17000.00
		21"	20000.00

Memory		512 MB	2000.00
		1 GB	3000.00
		4 GB	6000.00
Video Graphic Adapter (VGA)	Onboard 	VGA	No extra cost
		DIV	No extra cost
		HDMI	No extra cost
	Separate 	VGA	1000.00
		DIV with VGA	1500.00
		HDMI with VGA and DVI	2000.00
Sound card	Onboard		No extra cost
	Separate 		800.00

Item	Specifications	Price
Processor		
Capacity of main memory		
Hard disk capacity		
Size of monitor		
Video Graphic Adapter		
Sound card		
Warranty		
Total		

2. Fill in the table below with the lowest values.

Peripheral unit	Specifications	Price
Processor		
Main memory capacity		
Hard disk capacity		
Size of monitor		
Video Graphic Adapter	Separate	
Sound card	Separate	
Warranty	1 year	
Total		

3. Compare the given technical specifications for 2 computers A and B with the requirements. Select the better computer for purchase.

Item	Required specification	Computer - A	Computer - B
Processor	Quad Core 1.6 GHz	Dual Core 2.8 GHz	Quad Core 1.8 GHz
Main memory capacity	4 GB	2 GB	4 GB
Hard disk capacity	2 TB	1 TB	2 TB
Size of monitor	19"	21"	19"
Audio/video adapter	separate	onboard	separate
Sound card	separate	separate	onboard
Computer system	Windows 8	DOS	Windows 10
Guarantee	3 Years	2 Years	3 Years

4. With the assistance from your teacher, find the market price of the components for the computer you have selected above. Hence calculate the total price of the computer.