

The computer was invented by Charles Babbage in 1822. He was an English mathematician who built a calculating machine that was powered by steam. His computer was going to be as big as a room and was called the Difference Machine. Nonetheless, Babbage's machine was never built as it was too costly and difficult to build. Even though the Difference Machine was never built, it laid the foundation for constructing the computers that we see and know today.

One of the first modern computers was built by IBM in 1944. This computer was called the Mark 1. It was a massive machine that continuously operated for 15 years. The first 'computer bug' was found in the Mark 1. It was not exactly a bug when compared to the bugs that we have in modern computers now. It was a real bug! A moth had fallen into IBM's computer and stopped the computer from working properly.

In the 1980's, the computer industry changed a lot. The first personal computers hit the market. Computers became faster, smaller and a lot cheaper. Today, nearly every household has a desktop or laptop computer. Many people cannot even imagine how life would be without computers.

Are the statements true or false? Write T or F.

- 1) The first computer was built in 1822.
- **2)** The Apple 1 was the first modern computer.
- 3) The Mark 1 was a very popular computer in marhouseholds.
- **4)** Charles Bablage invented the first modern computer.

- **5)** The first computers were built to perform calculations.
- **6)** The Difference Machine was built by IBM.
- **7)** The Acorn was the first computer with Microsoft Windows.
- **8)** Personal computers became popular in the 80s.

Can you imagine a life without computers? How would your life be different? Explain.



## Hardware



Random Access
Memory (RAM), or internal memory, is the 'working memory' of a computer. It processes information and commands given by the user. Computers with high RAM memory can perform a lot of

tasks and run smoothly.



A router is a device that is connected to a modem. It receives

the Internet signal from a modem and spreads it to several computers with a serial cable or with Wi-Fi.

A modem is a small device that allows users to access the Internet. The device has two connections.

One cable is connected to an outlet in a wall while the other is connected to a PC or router.



A processor, or CPU, interprets and executes the commands from the computer's hardware or software. A CPU is

considered to be the 'brain' of the computer.

A motherboard is a piece of hardware that connects all hardware components together. Memory, hard drives, video cards, CPU and all other hardware is linked to a motherboard. You think of the motherboard as the 'back bone' of the computer.

A sound card allows computers to send audio information to speakers or headphones. Without a sound card, computer users cannot listen to audio files.



depends on the amount of gigabytes or terabytes.

A video card is a piece of hardware that sends graphical



information to the screen. It processes images that are showed on a display. Video cards are important when lots of images need to be generated, like a computer game. The better the video card, the higher the quality of the images.

Read the descriptions of the hardware components and answer the questions.

1) What is the difference between RAM and a hard disk?

2) What is the difference between a router and a modem?

**3)** Why is the CPU considered to be the 'brains' of the computer?

\_\_\_\_\_

**4)** Which hardware component is important for playing demanding computer games?

The table below contains words that have been chopped in half. Find the pieces that fit together and write them in the answer area below.

WEM	WI	AU
PHIC	MOTHER	WARE
FI	GRA	DIO
	2)	
	MEM PHIC FI	PHIC MOTHER FI GRA





b. false

b. false

**7)** An e-mail address can be infected with a virus.

Complete the text with the words below.

you should ..

a. make frequent backups

c. not download questionable files d. all of above

programmers	quarantine	duplicating	frequently	unaware	
downloads	corrupted	innocent	damage	operating	
			,		
A virus is a computer file t					
and attaching itself to othe serious damage to a comp		isands of viruses, som	e of which are	while	
serious damage to a comp	ater.				
Viruses are created by	w	ho want to cause pr	oblems for people	who own a computer.	
become infected by viruse	es through email atta	chments or	from t	the Internet. A virus sc	
when such a situation occ	urs and issues a warn	ing to the user of the	computer. But if ar	n anti-virus software is	
user will be	that his/her c	omputer is infected.			
	-virus software and keeping it up-to-date system (Windows, Linux, OS X).			FUN FAC	
<ul> <li>Downloading anti</li> </ul>	-virus software and ke	eeping it up-to-date.		5.11.506	
<ul> <li>Updating the</li> </ul>	sys	tem (Windows, Linux,	OS X).	FONTAG	
<ul> <li>Avoid opening em</li> </ul>	Avoid opening email attachments from unknown email addresses.		23303.	of the programmers of vi inized crime syndicates.	
<ul> <li>Avoid downloadir</li> </ul>	<ul> <li>Avoid downloading files from 'questionable' websites.</li> </ul>			ry month, more than 6,00 created.	
Anti-virus programs sear	ch for files and er	mail attachments th	at are Stru	xnet is a powerful	
In	case something is	found, it will imme		isticated enough to take	
or d	elete the file. Some v	iruses may cause dam	rage to	er plant.	
a user's data, so it is alwa	ys a good practice to			in' is the name of the puter virus and was desig	
backups.			_		
A <b>s</b> wer the questions about	computer viruses. Circ	cle the correct answe	r.		
1) A computer virus			4) How many differ	ent viruses exist?	
a. is designed by programmers b. copies itself		=	•	. 6,000 c. 1	
-	attaches itself to other files d. all of above		•	t about viruses is not tr	
<b>2)</b> Stuxnet is a famous viru			<ul><li>a. Computer viruses can spread through emails.</li><li>b. A virus cannot infect a computer with a virus</li></ul>		
a. was created to disable nuclear facilities b. is so powerful that it can take down important facilities		t facilities	c. Some people download a virus without realizing		
c. was created by a crime s			d. It is important to	frequently update a vir	
<ul><li>d. is designed to damage ordinary people's computers.</li><li>3) In order to prevent your computer from being infected,</li></ul>			6) Some viruses do not cause any inconvenience for computer users.		
		z mnectea,			

a. true

a. true

b. install a virus scanner





Cyber-crime is one of the fastest growing crimes in the world. Frequent users of the internet buy things from online shopping platforms, perform online banking and store their files on a 'cloud'. These events provide endless opportunities for cyber criminals who take advantage of the weaknesses of others.

More than 70% of all Americans have experienced some form of cyber-crime in their lives. Most of these illegal online activities are hard to detect and solve. In many cases, victims of cyber-crime do not even realize that something illegal or illegitimate has taken place.

Basically, there are three types of cyber-crime.

Are the statements below true or false? Write T or F.

- Harassment Some people use the Internet anonymously and are engaged in illegal activities like stalking, harassment and bullying.
- Hacking Hackers break into online networks and try to corrupt or download all kinds of sensitive or valuable information.
- Phishing Phishing is the activity of sending emails to people trying to trick them. The purpose of phishing is to obtain money from the recipients of these emails. Usually, the elderly, who are not very computer savvy are the most vulnerable groups for this kind of crime.

Read the passage and answer the questions.

4) Which cyber-crime do you think is the most dangerous? Give

reasons to justify your answer.

1) Why do you think it is so difficult to catch and prosecute cyber criminals?		
, <del></del>		
2) Have you ever been a victim of an online crime? If so, car you please describe the situation in detail?		
3) Have you ever done something that is not allowed on the		
web? If yes, what is it and why did you do so?		

