

Small Networks

A. page 140

1) What is a Computer Network?

It's a group of computer systems and other computing hardware devices that are linked together through communication channels to share data and services.

2) What are the benefits of using networks?

Access to data and services that don't need to be in the computer we are using.

Security, by asking for login information to access the network and its services.

B. page 140

1) What does LAN stand for?

Local Area Network

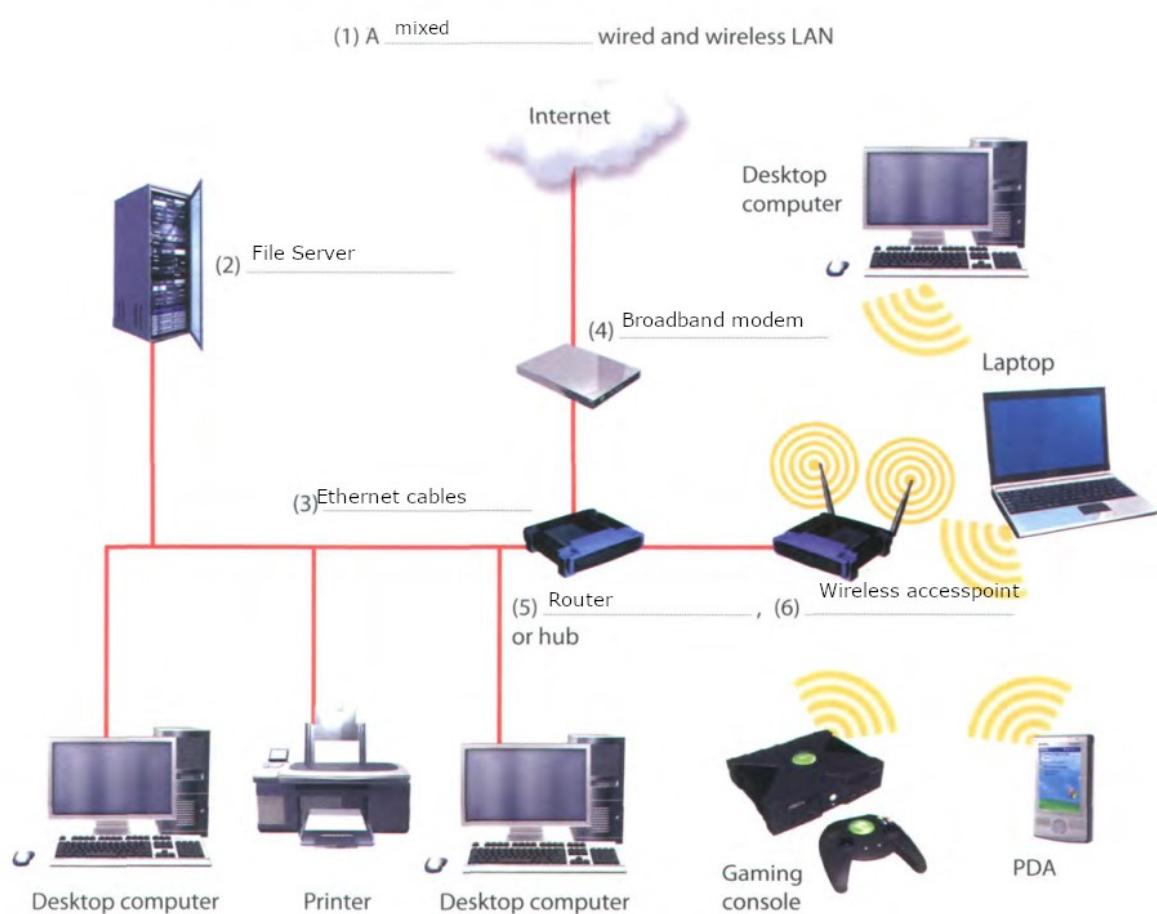
2) Where are LANs usually located?

We can find LANs everywhere, from our homes to our work place, in schools, universities, etc.

3) What is the difference between a wired LAN and a wireless LAN?

In a wired LAN the different systems communicate to each other via cable, while in wireless LANs, the information travels via radiofrequency or other wireless communication techniques.

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Networking FAQs

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B. page 141

1) What does PAN stands for?

Personal Area Network

2) What is a network protocol?

Set of rules that computers use to communicate with each other. For example TCP or UDP.

3) How do you log on to an Internet Service Provider?

You need to type your username and password.

4) WiMAX is a type of wireless network. What is it used for?

It is used to connect Wi-Fi hotspots.

5) What equipment do you need to set up a wireless LAN?

Computers equipped with a wireless adapter or card, a wireless access point and a broadband internet connection if you want to access to the internet.

6) What are the advantages and disadvantages of wireless networks?

Advantages

Disadvantages

Cheaper

Harder to install

Faster

Realiable

C. page 142

1) This network typically consists of two or more local area networks, covering a large geographical area

- a) LAN b) WAN c) Intranet

2) This type of network does not have a dedicated server; all the computers are independent.

- a) Peer-to-peer b) client-server c) Metropolitan Area Network

3) On this topology, all devices are connected to the same circuit, forming a continuous loop.

- a) Star b) ring c) bus

4) The language used by computers to communicate with each other on the Internet is called

- a) Ethernet b) ADSL c) TCP/IP

5) Which cables are used to transfer information for the internet over long distances at high speeds?

- a) Telephone Lines b) Ethernet Cables c) Fibre Optic Cables

6) Which device allows several computers on a local network to share an internet connection?

- a) An ADSL port b) Wired Router c) Wireless Adapter

7) Bluetooth is a wireless technology that uses radio waves to transmit data over

- a) Long distances b) Medium-range distances c) Short distances (ten metres or less)

Language work: Phrasal Verbs

A. page 143

Look at: Mirar algo específicamente

Consist of: Formado por

Linked over: Unidos

Carry out: Hacer algo y finalizarlo

Turn on / switch on: Encender / poner en marcha algo

Turn off / switch off: Apagar

Plug into: Enchufar

Set up: Establecer.

Sign up: Darse de alta

Try out: Testear

Find out: Descubrir

Take up: Ocupar

Make up: Formar, constituir

Fill in: Rellenar (campos de información)

Look for: Buscar algo en particular

Break into: Entrar sin permiso en un sistema, lugar...

Type in: Escribir en un lugar determinado.

Look up: Fijarse en algo, admirar a alguien

B. page 143

- 1) To join the club, fill in this form and send it to our office
- 2) The CPU carry out all the basic operations on the data.
- 3) Digital music takes up a lot of space – about 10 MB for every minute of stereo sound.
- 4) Thousands of networks are linked over the Internet.
- 5) You can use newsgroups to look up about the latest trends, customer needs, etc.

C. page 144

- 1) **Why was the hacker arrested?**
c) Because he broke into a computer system and stole confidential data.
- 2) **Is it OK to log on to my bank account using public computers in a cybercafe?**
a) Yes, but always remember to log off after you've ended your session.
- 3) **How do I set up an Internet connection at home?**
e) You need to install the software for your router. Follow the instructions provided by your ISP, probably in the form of a pdf file on a CD.
- 4) **Can I download software from your site?**
b) Yes, you can even try the programs out for a period before you buy them.
- 5) **How can I add video to instant messaging?**
d) Simply install this program and plug the webcam into your computer.
- 6) **What do I need to do to sign up for a Yahoo! Email account?**
f) You have to create a username and password and then give some personal details.

WANS and satellites

A. page 144

The diagram represents two different networks linked over a Satellite relay. The one on the left consists on a laptop, a desktop computer and a PDA connected to a wireless router via WIFI, which is connected to the phone line, which sends information through a dish aerial to other networks, like the one represented on the right side.

The right-side network is made up of two desktop PCs and a PDA, which are connected to a modem, which sends information through a fibre optic cable to a dish aerial to communicate with other networks.