

COMPUTER NETWORK

Information & Communication Technology

GRADE 9

What is Computer Network?

A Computer Network is a group of two or more computer systems connected together for the purpose of sharing resources.



Several advantages of computer networking



Types of Network Connection

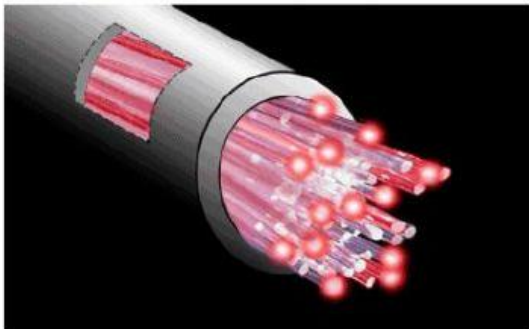


Wired



Wireless

Cabling used in wired connection



Fiber Optic Cable



CAT 7 CABLE SYSTEM
WWW.DINTEK.COM.TW

Twisted Pair Cable

Wireless Media



**Infrared
Waves**



Bluetooth



**Wi-fi
Waves**



**Radio
Waves**

Basic devices of a Network

- **Server**



The server manages the software, the hardware, the files and communication in the network.

- **Switch**



Switches/Hubs connect various network devices together, like computers, printers. It allows communication between those devices. A guided/wired transmission media is used. One end is connected to port in the computer and the other end is connected to the port in the Switch / Hub.

- **Network Interface Card**



Network Interface Card connects a computer to a computer network.

- **RJ45 Cables**



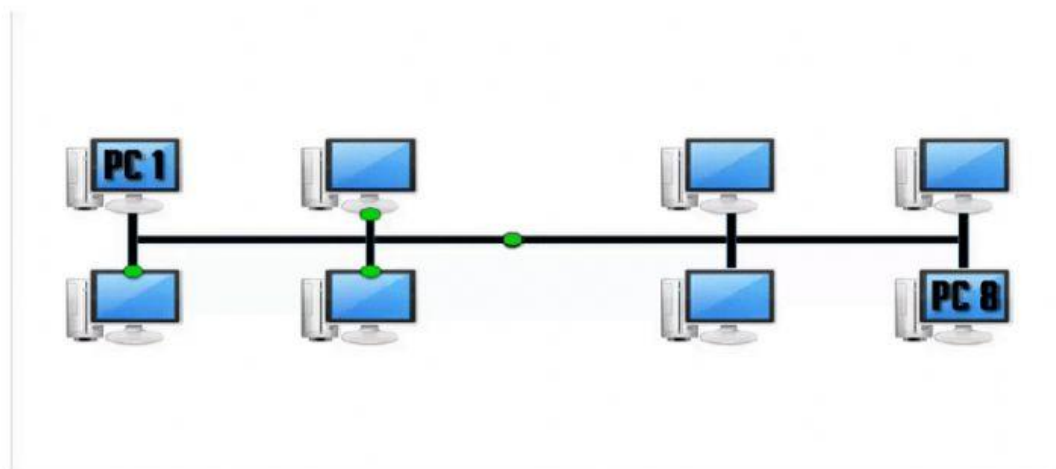
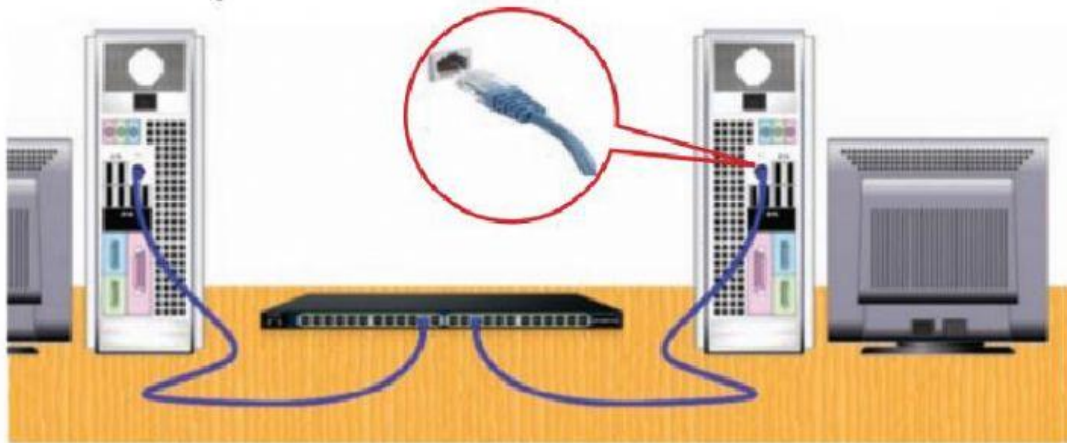
RJ45 connector cable

- **Router**



Router joins two or more computer networks together via either wired or wireless connections. This finds out the most suitable path for data transmission in network communication.

A network involving two computers



- Select the most suitable word from those in the box to fill the blanks in the statements 1 – 5 given below.

1. Connecting together two or more computers and peripherals is identified as a
2. There are two types of media to connect computers. They are: and connections.
3. Wireless computers use the technology.
4. Wired computers use the technology.
5. Is a benefit of networking computers

Bluetooth

Communication

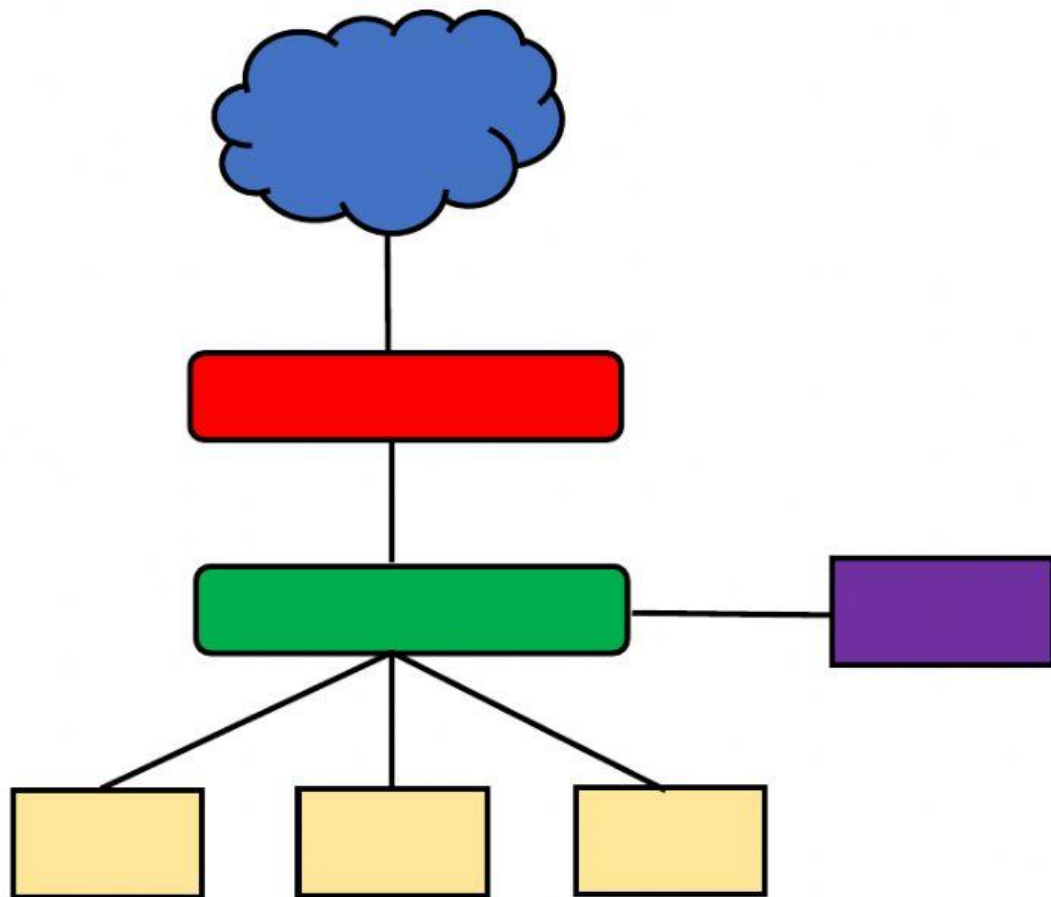
Wired

Wireless

Computer Network

Fiber Optics

- Identify the hardware to match the chart given.



- ✓ Router
- ✓ Computer 1
- ✓ Switch
- ✓ Computer 3
- ✓ Server
- ✓ Computer 2
- ✓ Internet