# End of Unit Quiz – Unit 1.4 Wired and Wireless Networks

1. What are **two** advantages of networking computers?

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1. What does **WAN** stand for?

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1. What is the definition of ‘bandwidth’?

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1. What does the acronym **mbps** stand for?

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1. Using the LOR framework, write about the impact that bandwidth can have on the performance of a network.

In your answer you might consider:

* The speed of the network
* The type of media being accessed.
* The number of users.

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1. What are the differences and similarities between a **LAN** and a **WAN**?

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1. A large supermarket chain is setting up a new client server network. What is meant by the term ‘client server network’?

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1. You plan to use a peer network model for a business. Describe **two** reasons why you have chosen this network model.

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1. You have connected your laptop to your home network using wireless technology. Label the different devises stated below:

 **Router WNIC Modem**

Internet

1. What is the purpose of a router?

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1. What does **DNS** stand for?

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1. You want to check out the latest team news for your favourite football club [www.soccerfc.com](file:///C%3A%5CUsers%5Crlong%5CDownloads%5Cwww.soccerfc.com). When you type the address into a browser, the page loads. The main steps that take place during this process are detailed below. Place these steps in order in the flow chart:
* Enter URL into browser
* DNS responds with details of the name server
* Name server responds with IP address of the host
* Server hosting the site sends across content
* ISP sends IP address to the browser
* Browser requests IP address of site from ISP
* Website displayed to the user
* ISP asks name server for site IP address
* Browser receives website content
* Browser sends request to the server hosting the site
* ISP requests IP address from DNS server
1. Many fast broadband connections use fibre optic cable instead of copper. What are **two** reasons why fibre optic cable is the preferred choice?

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1. Why is using cloud computing useful to some businesses?

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1. What is meant by the term ‘virtual network’?

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1. What is meant by the tern **VPN**?

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1. You have a games console in your bedroom and a video streaming device in your lounge. You use both devices to watch movies. The Wireless Access Point is located in the lounge. You have found that you are able to stream movies at a far higher quality in the lounge than in your bedroom. Why is this?

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1. Place the following types of cables into order of speed, from slowest to fastest.
* Cat 5e
* Cat 6
* Fibre Optic
* Cat 5

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1. Fill in the table with whether each of the statements are true or false.

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| **Statement** | **True / False** |
| A peer-to-peer network has one central controlling computer. |  |
| Peer-to-peer networks are easier to set up than client-server networks. |  |
| Peer-to-peer networks allow individual devices to share files between each other. |  |
| Peer-to-peer networks are commonly used in large organisations. |  |
| It is easier to implement security procedures throughout a client server network than a peer to peer network. |  |

1. Using the following components, draw how a client server network may be set up.
* Server
* 2 x workstations
* Switch
* Printer

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