

Mortimer



DIGITAL INFORMATION TECHNOLOGY (YEAR 10)

WEEK SEVEN

**Clare is a designer for a games development company.
She works from home and in public places such as cafés, train stations and airports.
Clare uses her laptop to prepare designs.**

Clare is concerned about malware. She knows a virus is a type of malware.

Give two other types of malware.

Clare has recently been a victim of phishing.

Describe one way that this could have happened.

Clare's laptop has been infected with a virus.

Explain two ways Clare's laptop could have been infected with a virus.

**Clare is a designer for a games development company.
She works from home and in public places such as cafés, train stations and airports.
Clare uses her laptop to prepare designs.**

Clare is concerned about malware. She knows a virus is a type of malware.

Give two other types of malware.

Any two from:

- **Worms**
- **Trojan**
- **Botnet**
- **Ransomware**
- **Rootkit**
- **Spyware**

Clare has recently been a victim of phishing.

Describe one way that this could have happened.

A description to contain two from:

- **Clare received an email which asked for personal details**
- **Clare clicked on a link in an email she received**
- **Then she provided her personal information.**

Clare's laptop has been infected with a virus.

Explain two ways Clare's laptop could have been infected with a virus.

An explanation such as:

- **Clare could have shared portable storage devices with colleagues/other people that hadn't been checked using up to date anti-virus software**
- **Clare used an unencrypted Wi-Fi network which allowed a hacker to install a virus on her laptop**
- **Clare downloaded files from the internet where she used sources from a site that was not genuine/a trusted organisation that contained a viruses**

A local travel agency sells holidays through high street shops and online.

The travel agency currently uses biometrics to secure its computer systems.

Give two other ways the travel agency can restrict user access.

The travel agency has produced a form to allow customers to search for holidays.

Annotate the form to show four improvements that could be made to make it more user friendly and effective. An example has been provided.

Holiday Search Form

Region

Departure Date

Length of Stay

Number of Guests

Number of Rooms

make each text box an appropriate size for the input data.

A local travel agency sells holidays through high street shops and online.

The travel agency currently uses biometrics to secure its computer systems.

Give two other ways the travel agency can restrict user access.

Any two from:

- **Password protect systems / Username(s) and passwords**
- **Use two factor authentication**
- **Set levels of permitted access**
- **Physical security (locks)**

The travel agency has produced a form to allow customers to search for holidays.

Annotate the form to show four improvements that could be made to make it more user friendly and effective. An example has been provided.

Any four from:

- **Larger font for the title**
- **Calendar for the date**
- **Length of stay/Number of guests/Number of rooms to include a dropdown/spinner**
- **Help/Instructions**
- **Search option**
- **Navigation**
- **Accessibility Options/Features**

Piccalilli Shoes sells shoes through its nationwide shops and telephone orders.

The company records transactional data from all sales.

Explain one way that Piccalilli Shoes could use this data

Staff from different shops work together to produce reports about the company's sales.

Explain two collaboration tools that can be used to help staff work together on these reports.

One reason for the company to have a website is to increase sales.

Explain two other reasons why Piccalilli Shoes has a website.

Piccalilli Shoes sells shoes through its nationwide shops and telephone orders.

The company records transactional data from all sales.

Explain one way that Piccalilli Shoes could use this data

Any one explanation such as:

- **Used for personalised marketing which is based on existing customers purchase history**
- **Can be used for stock control so they can order**

Staff from different shops work together to produce reports about the company's sales.

Explain two collaboration tools that can be used to help staff work together on these reports.

Any one explanation such as:

- **Shared documents (where all users can highlight sections/make comments**
- **Live chat where users login and discuss changes in real time**
- **Scheduling where the authors of a document can allocate resources and work to deadlines**

One reason for the company to have a website is to increase sales.

Explain two other reasons why Piccalilli Shoes has a website.

- **Convenience for customers/available all the time (rather than them having to travel to a shop (they might not live in the area), park etc**
- **Higher profit margin for sales as sales made online will have less overheads**
- **Competitors will have one so potential customers will go to them instead**