# Activity sheet 3.22: Device hardening at Jackson’s Solicitors

*Learning outcome B: Cyber security*

*B2: Prevention and management of threats to data*

Jackson’s Solicitors manages legal work on behalf of clients. For example, they help when people buy and sell property and they defend clients in court cases. They have recently carried out a review of computer security and have discovered some weaknesses.

For each issue below:

* state one way in which the computer system is vulnerable because of this issue
* describe what action could be taken to correct this issue
* explain how the action will help to make the business and its data less vulnerable to attack.

1. Incoming data traffic is not monitored to see whether it has been requested by one of the organisation’s own computers.

1. Users can download files from emails and run them without any checks being made to ensure that the files are safe to use.

1. The operating system was installed two years ago. Automatic updates have been disabled.

1. Documents are stored on the computer system using plain text. The same method is used to transmit documents to clients.

1. Users can install programs without authorisation from the network manager.

1. All users can access all files stored on the network.

**Take it further**

Find out how asymmetric (public key) encryption works. Produce a short guide to explain to   
non-IT experts how it works.