



## Codefez 1.4 Security Worksheet 1 Answers

Q	Answer	Mark	Guidance
1	<ul style="list-style-type: none"> <li>- Firewall</li> <li>- Anti-virus // anti-malware</li> </ul>	2	
2	<ul style="list-style-type: none"> <li>- Encryption</li> <li>- ...Prevents hackers from understanding any data if accessed (e.g. passwords)</li> <li>- Access rights</li> <li>- ...To prevent files from being modified / deleted</li> <li>- User access control</li> <li>- ...Prevents users from making changes to the system</li> </ul>	4	
3	<ul style="list-style-type: none"> <li>- Staff can bring in files via any medium</li> <li>- ...not allowing/stopping external devices being used on the network</li> <li>- She or others may download infected files from the internet (1 - AO2 1a)...</li> <li>- ...blocking/restricting access to insecure websites (1 - AO2 1b)</li> <li>- Staff or customers using the network may try to hack into the computer where the data is stored</li> <li>- ...allow staff/customer access via a virtual network</li> <li>- Sending/sharing sensitive data with third parties (1- AO2 1a)...</li> <li>- ... blocking/restricting access to USB ports/email/internet/printing (1 - AO2 1b)</li> <li>-</li> </ul>	4	
4	<ul style="list-style-type: none"> <li>- It is not a complicated encryption method // should be easy to crack</li> <li>- A powerful computer can decipher messages very quickly.</li> </ul>	2	
5	Eg. <ul style="list-style-type: none"> <li>- Encrypt the USB drive</li> <li>- Password protect the required files</li> <li>- Use a cloud drive to store the data instead of carrying a physical drive</li> <li>- Access work files using a VPN</li> </ul>	2	
6	Type of security measure	Outcome	3
	2 factor authentication	Requires a second pin or keyword to be sent to an email, phone or generated using an app.	
	encryption	Changes file data to an unreadable form.	
	File / directory Access Levels	Only permits people to access files based on role in an organisation or level in hierarchy.	