Name: Class:

Task 1

Isabella works for an accountant. She wishes to send a PDF report to a company director which contains sensitive financial data about their company.

She first rings up the director to give them a password. She then sends a standard email with the PDF attached.

(a) Describe how encryption has been used in this example using the following technical words.

* Eavesdropper • Encrypted text
* Encryption algorithm • Decrypt
* Password • Plaintext
* Receiver • Secret
* Sender • Shared key
* Symmetric encryption

(b) What is the problem with using symmetric encryption to send this data?

Task 2

(a) Explain why web forms in particular should be sent using encryption.

(b) Draw a diagram to show how asymmetric encryption is used when transmitting a web page from a server to a user using HTTPS.

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