

7 Data is transmitted using the internet.

(a) The data is encrypted before transmission.

(i) State the purpose of encrypting data.

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..... [1]

(ii) Describe the differences between symmetric and asymmetric encryption.

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(b) The data is transmitted using packet switching.

(i) Identify **two** items of data contained in a packet header.

1 .....  
2 ..... [2]

(ii) Give the purpose of a router in the packet-switching process.

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..... [1]