

2 A clothes store has a ticket system to allow customers to speak to a personal shopper.

The ticket displays a ticket number in hexadecimal, for example 11B.

(a) The ticket system has an output device that creates a paper ticket.

Identify an appropriate output device to produce the paper ticket.

..... [1]

(b) Each ticket number is stored as a binary number in the ticket machine.

(i) Two ticket numbers are 14B and 97A.

Convert the **two** ticket numbers from hexadecimal to binary.

14B

97A

[2]

Working space

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(ii) Give **two** reasons why the ticket number is displayed as hexadecimal instead of binary.

1

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2

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[2]

(c) The ticket numbers could also be represented as denary.

(i) Convert the **two** ticket numbers from hexadecimal to denary.

02C

10B

[2]

(ii) Convert the **two** denary numbers into hexadecimal.

109

415

[2]

Working space

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