

1 Computers represent different types of data in binary.

(a) Tick (✓) **one** box to show the reason why computers use binary to represent data.

A Computers only allow 1s and 0s to be entered.

B Computers are made of switches and gates that can only be on or off.

C Binary does **not** need to be converted into other forms of data to be displayed.

D Both computers and humans can quickly process binary data.

[1]

(b) One form of data is characters.

The American standard code for information interchange (ASCII) denary number for the character 'N' is 78.

(i) Tick (✓) **one** box to identify the ASCII denary number for the character 'Q'.

A 81

B 80

C 79

D 77

[1]

(ii) Give the binary number for the ASCII denary number for 'N'.

..... [1]

Working space

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(iii) Explain how the word 'RED' is represented using a character set.

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..... [2]

(c) Sound can be represented as binary.

(i) Explain why recording sound with a higher sampling resolution creates a more accurate recording.

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..... [2]

(ii) Give **one** other way that the accuracy of a sound recording can be improved.

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..... [1]