

01.1 Convert the decimal number 97 into an 8-bit binary number.

[1 mark]

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01.2 Convert the decimal number 117 into hexadecimal. You should show your working.

[2 marks]

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Answer:

01.3 Give two reasons why programmers might use hexadecimal rather than binary to represent numbers.

[2 marks]

1

2

02 The ASCII character set uses seven bits to encode every character.

What is the total number of characters that can be encoded in ASCII.

[1 mark]

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03.1 Place the following quantities in order of size (1-4, where 1 is smallest and 4 is largest)

[3 marks]

Quantity	Order (1-4)
2.3 MB	
2,800 kB	
0.3 GB	
14,000 Bytes	

03.2 How many kilobytes are there in 4 TB? Show your working.

[2 marks]

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Answer: