

**01.1** Convert the binary number 10001111 into a decimal number.

**[1 mark]**

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**01.2** Convert the hexadecimal number 7D into binary. Write your answer as an 8-bit binary number. You should show your working.

**[2 marks]**

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Answer: .....

**01.3** Convert the decimal number 37 into hexadecimal. You should show your working.

**[2 marks]**

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Answer: .....

**01.4** A student's answer to the question "Why is hexadecimal often used instead of binary?" is shown below.

Because it takes fewer digits it will take up less space in a computer's memory
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Explain why the student's answer is incorrect

**[2 marks]**

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**02** Benny has recorded an audio file on his computer. The file has a size of 2,300,000 kB. What is 2,300,000 kB in gigabytes? You should show your working

**[2 marks]**

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Answer: .....