0 1 . 1 Convert the **hexadecimal** numbers 27 and C9 into **binary**. Then, in **binary**, add them together to work out the total. Finally, convert the total back into **hexadecimal** to give the answer.

You **must** show your working.

[2 marks]

Answer in hexadecimal _____

0 2 . 1 Convert the bit pattern shown below into hexadecimal.

1	0	1	1	0	1	1	1

[1 mark]

0 2 . 2 Explain why programmers often use hexadecimal to represent bit patterns instead of binary.

[1 mark]

0 3 . 1 State the **decimal** equivalent of the hexadecimal number C57

[1 mark]

0 4 . 1 Convert the decimal number 193 to hexadecimal.

[1 mark]

0 5 . 1 Assembly language programmers can use hexadecimal to represent bit patterns instead of binary.

Explain why assembly language programmers will often choose to use hexadecimal in preference to binary.

[1 mark]

0 6 . 1 Convert the bit pattern `10001010` to hexadecimal.

[1 mark]

0 7 . 1 Describe how a 12-bit unsigned binary integer such as `010010101110` can be converted directly into hexadecimal.

The method you describe must **not** involve converting into decimal.

[2 marks]

0 7 . 2 State **one** reason why hexadecimal is often used in preference to binary.

[1 mark]