

01 Convert the binary number 00111010 into decimal.

[1 mark]

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02 Binary is base 2. What number base is hexadecimal?

[1 mark]

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03 Apply a binary shift two places to the left to the bit pattern 00101111

[1 mark]

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03.2 State the arithmetic effect of applying a right binary shift of two to a binary number

[1 mark]

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04.1 Convert the hexadecimal number 8E into binary. You should show your working

[2 marks]

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04.2 Convert the binary number 01111011 into hexadecimal. You should show your working

[2 marks]

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04.3 Convert the hexadecimal number 2B into decimal. You should show your working

[2 marks]

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04.4 What is the largest hexadecimal number that can be represented in binary using 8 bits

[1 mark]

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