

01 The term pixel is short for Picture Element.

Define the term **pixel**.

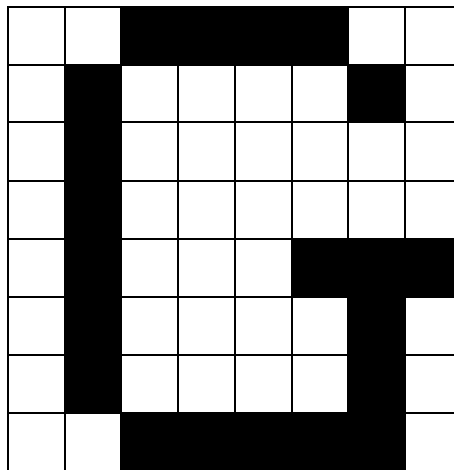
[1 mark]

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02 **Figure 1** shows an 8 pixel x 8 pixel black and white bitmap.

Figure 1



02.1 Calculate the file size in bits of the bitmap shown in **Figure 1**.

[1 mark]

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02.2 The first row of the bitmap in **Figure 1** is encoded using the bit pattern show below:

11000011

Using this information, write down binary representation for row 5 of the bitmap shown in Figure 1.

[1 mark]

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02.3 A 10 pixel x 10 pixel bitmap image contains 6 different colours.

Calculate the minimum file size, in bits, of this image when represented as a bitmap

You should show your working.

[2 marks]

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