Name: Class: Mark:

1. What does decomposition mean?

Tick the correct answer. [1]

* **A**  Removing or hiding unimportant parts of the problem
* **B** Creating a sequence of steps to solve the problem
* **C** A program that is in memory and needs to be removed from memory
* **D** Breaking down a problem into smaller parts

2. Convert the following image into binary with 0 as black and 1 as white. [4]

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3. List the stages that are required to send an image and caption via a smartphone.

The first two stages have been completed for you. [5]

1. Make image into pixels
2. Convert pixels to binary

3.

4.

5.

6.

7.

8.

9.

10.

[Total 10 marks]