Mark Scheme:

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| 1 | Answer: max 2 for explanation  max 1 for example / use of Figure 1   * An image is made up of / consists of pixels * A pixel can be one colour * Each colour has a unique / corresponding binary number * Each pixel / square is given the binary number of its colour * The binary numbers are stored in order in the file * E.g. White = 00, Black = 11, Dark grey = 10, Light grey = 01 |
| 2 | Two from:   * More bits are needed per colour * which means more bits per pixel * increases quality of the file * increases the size of the file.   *Guidance: "more bits" with no reason or application is 0* |
| 3 | 2 marks for Lossy 2 marks for Lossless  Lossy  Removing data (1) from a file (commonly images and sound) to reduce its size (1). Data is lost which means that the image cannot be restored (1) to its original condition.  Lossless  Compressing a file without losing any information (1). No bits are lost (1) after the image has been restored (1). All data is restored after file has been uncompressed. |