



Grade:

/15

### Media Types - 1

Name: \_\_\_\_\_

Answer the questions below in the spaces provided.

1. Geraldine has created a bitmap graphic on her Graphics Package on her computer. She compresses the finished graphic and emails it to her friend.

a) State what is meant by file compression. (1)

\_\_\_\_\_

b) State an advantage of compressing the file before it is sent. (1)

\_\_\_\_\_

2. Geraldine records her own singing and wishes to send a high quality sound file to a record producer.

Below is a table showing the possible output settings from her recording software.

	Output Setting 1	Output Setting 2	Output Setting 3	Output Setting 4
Sound Bit Depth	24 bit	4 bit	24 bit	8 bit
Sound sampling Rate	22000Hz	52000Hz	48000Hz	48000Hz

a) State which Output Setting would be her best choice. (1)

\_\_\_\_\_

b) Explain why you made your selection in (a) . (2)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. Geraldine wants a good quality picture of herself to send to the record producer with her song. She asks a friend to take a picture of her with their mobile phone. She then asks her friend to take the picture of her with her digital camera. She is much happier with the results of the picture taken by the digital camera.

State **two** factors that could explain the increase of quality between the pictures.  
Describe how each factor affects quality.

(4)

Factor \_\_\_\_\_

Describe \_\_\_\_\_

\_\_\_\_\_

Factor \_\_\_\_\_

Describe \_\_\_\_\_

\_\_\_\_\_

4. a) Geraldine's takes more pictures with her phone's camera and digital camera one picture is taken with a resolution of 800 x 800 with a 24 bit colour depth.

Calculate, showing workings, the storage requirements for this graphic.  
State your answer in appropriate units.

(3)

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b) Another picture is taken with a resolution of 1,200 x 1000 in 256 colours.

Calculate, showing workings, the storage requirements for this graphic.  
State your answer in appropriate units.

(3)

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