

Answer the questions below in the spaces provided.

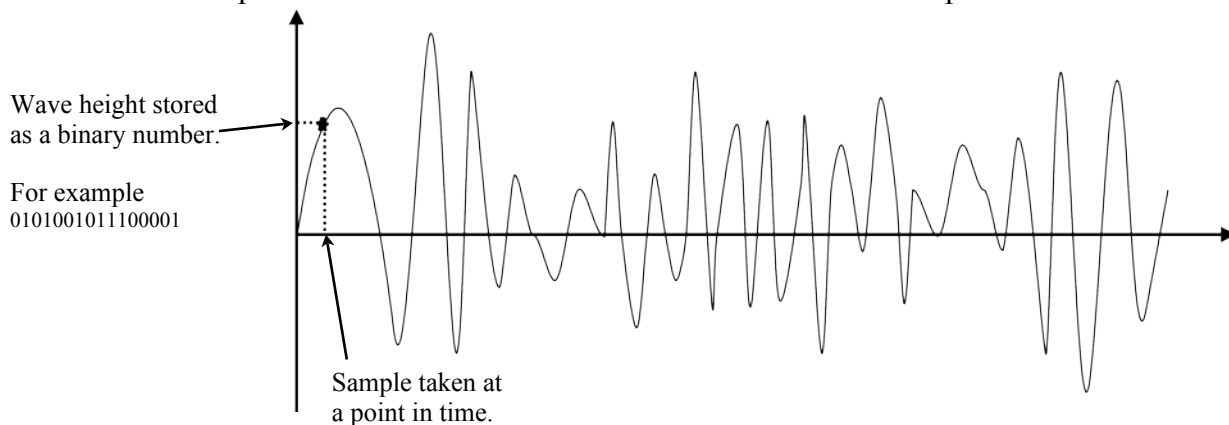
1. State the **type** of data associated with a wav file. (1)

2. Name the graphic, standard file type being described below. (1)

8-bit colour depth
 Capable of transparency
 Can store multiple images to create an animation
 Uses compression to reduce its file size

3. The standard file type, portable network graphic (png), uses compression to reduce file size. State why their use of compression makes png files suitable for use on websites designed to be displayed on smartphones? (1)

4. An analogue sound is digitised (converted to digital information) by taking regular samples of the sound wave and storing each sample as a binary number. The number of samples taken every second is called the “sample rate” while the number of bits used to store the sample is called the “bit depth”.



Use the words **high** and **low** to complete the table, showing the settings that would be used when each of the two sounds described below are digitised. (2)

Sound Required	Setting Required (high or low)
A sample of a guitar sound is required for use in a video game. It's important the sound quality is excellent.	Sample Rate
	Bit Depth
A sound of a mouse clicking has been recorded for use in a presentation. The sound will play as each slide is shown.	Sample Rate
	Bit Depth

5. (a) Circle the cupcake graphic below that has been saved as a png file. (1)



- (b) Explain your answer. (1)

6. Describe **one** method the mp4 standard file format uses to compress video files. (1)

7. Fife Tennis Club create their monthly newsletter using Microsoft Word. They wish to post the latest newsletter on their website but are concerned about previous complaints from members who couldn't open the file.

- (a) Explain why some of the members can view the website but can't open the newsletter file. (1)

- (b) Describe a solution to this problem that will ensure every member can read the file. (1)

8. Plain Text and Rich Text Format files are two standard file formats associated with storing text.

- (a) State which of the two formats would you recommend to store the text shown below. (1)

An **information system** is *hardware* and *software* used to collect, store and process data.

- (b) State **two** reasons to support your above choice. (2)

1. _____

2. _____