

**01** One way of representing sound digitally is to take samples of the original sound.

**01.1** Explain why it is necessary to take samples to represent sound digitally.

**[2 marks]**

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**01.2** Define sampling rate

**[2 marks]**

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**01.3** Chose one answer which correctly states the effects of decreasing the sample resolution of a digital sound recording.

**[1 mark]**

- A. Decreases the quality of the sound recording and has no effect on file size
- B. Decreases both the quality of the recording and the file size
- C. Has no effect on the quality of the recording or the file size
- D. Decreases the quality of the recording and increases the file size

**01.4** To calculate the size of a digital sound file it is necessary to know both the sample rate and the sampling resolution that will be used to record the sound.

Describe how to calculate the file size of a digital sound recording.

**[2 marks]**

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