# Sound – Green pen exercise

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| **What is sampling?** |
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Which of the following samples will most likely have the best audio quality?

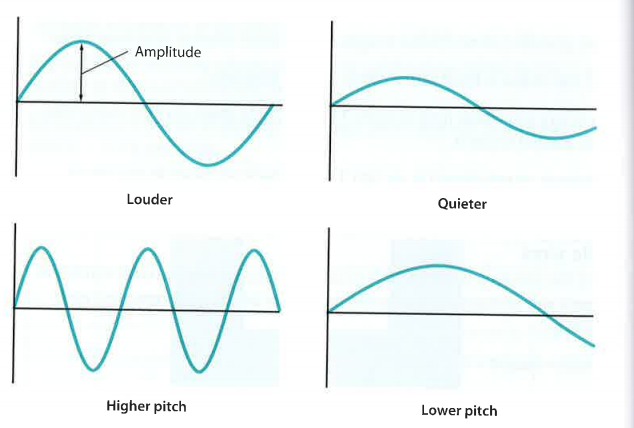
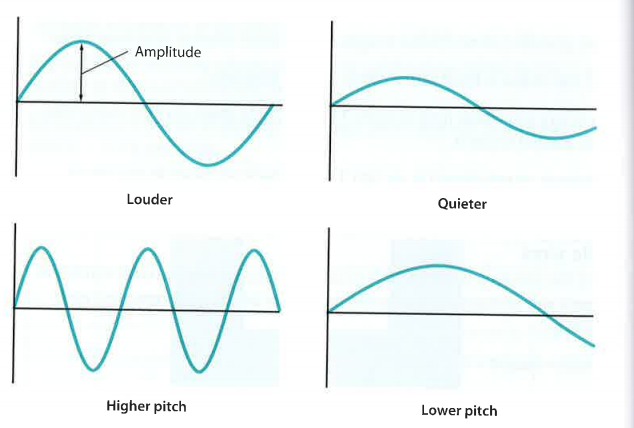
* 2,000
* 30,000
* 44,100
* 11,400

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| **What is Bit depth?** |
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**Which of the following bit depths will most likely have the best audio quality?**

* 2
* 24
* 8
* 16

**Label the graphs below with the following labels: “Louder”, “Quieter”, Higher pitch” and “Lower pitch”**

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| **Name 3 examples of an analogue signal** | **Name 3 examples of a digital signals** |
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**What are the 4 things the size of a digital audio sound file depends on?**



**Calculate the file size of a stereo recording of three minutes duration with a sample rate of 44,100 and bit depth of 24 bits? Provide the answer in Megabytes**

Number of samples per second =

Bit depth =

Duration =

Number of channels =

The size of the file is found from the following formula:

File size in bits = sample rate \* bit depth \* duration in sec \* no. Of channels

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| **What is Fidelity?** |
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| **EXTENSION**: Please answer the following questions on lined paper |
| SnapCrab_NoName_2017-2-19_13-43-3_No-00.png |