

2.6 Data Representation Lesson 4 – Sound

Total points **8/10**

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✗ What unit is sample rate measured in?

0/1

☒ Bits per second (bps)

✗

☐ Hertz (Hz)

☐ Megabits per second (Mbps)

Correct answer

☒ Hertz (Hz)

✓ Which of the following is not true if you increase the sample rate?

1/1

☐ Better quality of recording

☐ Needs greater storage space

☐ larger file size

☒ Sound plays faster

✓



✓ What is meant by bit depth?

1/1

- ☐ The number of samples taken per second
- ☐ The amplitude of each sample
- ☐ The number of bits used per second of audio
- ☒ The number of bits used to store each sound sample ✓

✓ Which of the following is true if you decrease the bit rate?

1/1

- ☐ File size increases
- ☐ Sound quality gets better
- ☒ Sound quality gets worse ✓
- ☐ Number of sound samples taken per second increases

✓ What is measured when a sound wave is sampled?

1/1

- ☒ Amplitude ✓
- ☐ Hertz
- ☐ Bit rate
- ☐ Frequency



✓ What sample rate is used for CD quality sound?

1/1

☒ 44100 Hz



☐ 88200 Hz

☐ 22100 Hz

✓ The purpose of a Digital to Analogue converter is to...

1/1

☒ convert binary data into analogue form so we can hear it via a speaker



☐ convert sound waves into binary so it can be understood by a computer

✓ What piece of hardware would you use to input sound into a computer? 1/1

☐ Speaker

☐ Analogue to digital converter

☒ Microphone



☐ Digital to analogue converter

✓ If you increase the bit depth of an audio file then you increase the quality 1/1

☒ True



☐ False



✗ The amplitude of a sound wave is...

0/1

- ☐ how high the wave is from the crest or trough
- ☐ the frequency at which it is sampled
- ☒ the speed at which it travels through air

✗

Correct answer

- ☒ how high the wave is from the crest or trough

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