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Sound

Properties of Sound

Key Concept: The loudness of a sound depends on two factors: the amount of energy it takes to make the sound and the distance from the source of the sound.

- Loudness is how loud or soft a sound seems to the person who hears it.
- The more energy it takes to make a sound, the louder the sound. For example, pounding hard on a door with your fist makes a louder sound than tapping gently on a door with your fingers.
- The closer you are to the source of a sound, the louder the sound. The whisper of a person next to you is louder than the whisper of a person across the room.
- The loudness of a sound is measured in decibels (dB).
 The loudness of a whisper is about 20 dB. The loudness of a rock concert is about 120 dB.

Answer the following questions. Use

- 1. Circle the letter of each sentence that is true about loudness.
 - a. Louder sounds take more energy to make.
 - **b.** Moving away from the sound source makes a sound louder.
 - c. Loudness is measured in decibels.
- 2. Is the following sentence true or false? Sounds are louder when you are closer to them. _____