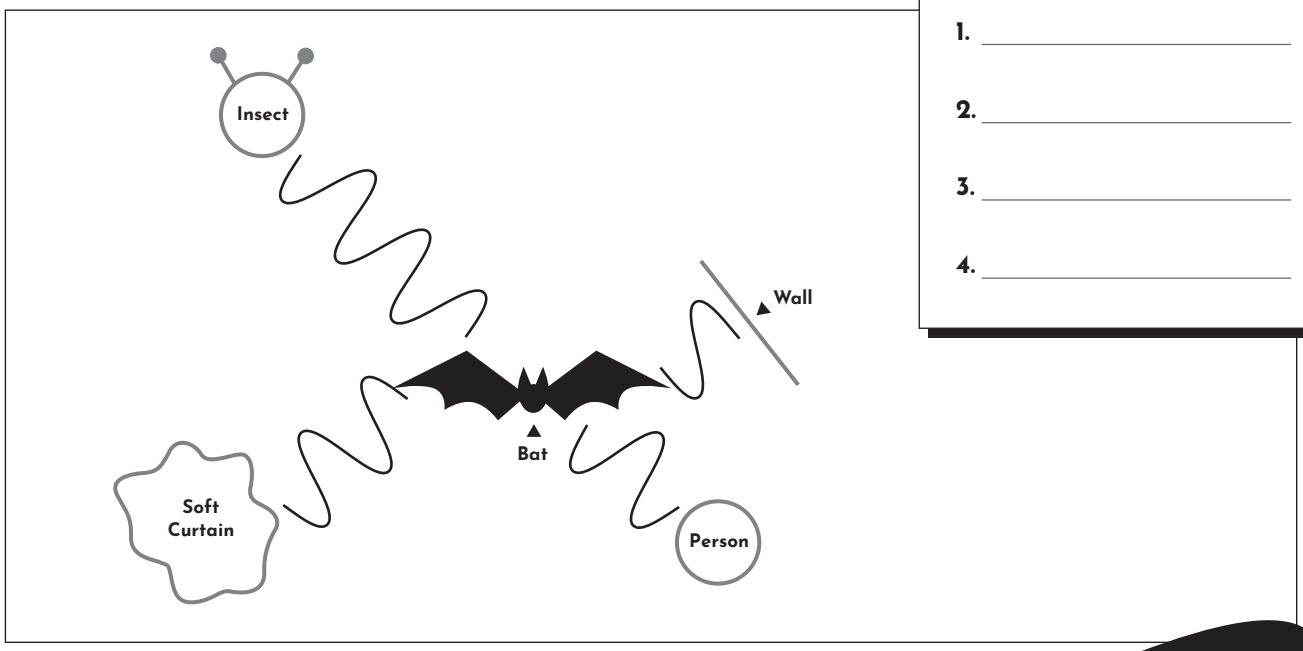
Science

Hearing and Sound

Name: _____

Write the objects in the order the bat will receive the information using echolocation:



1. _____

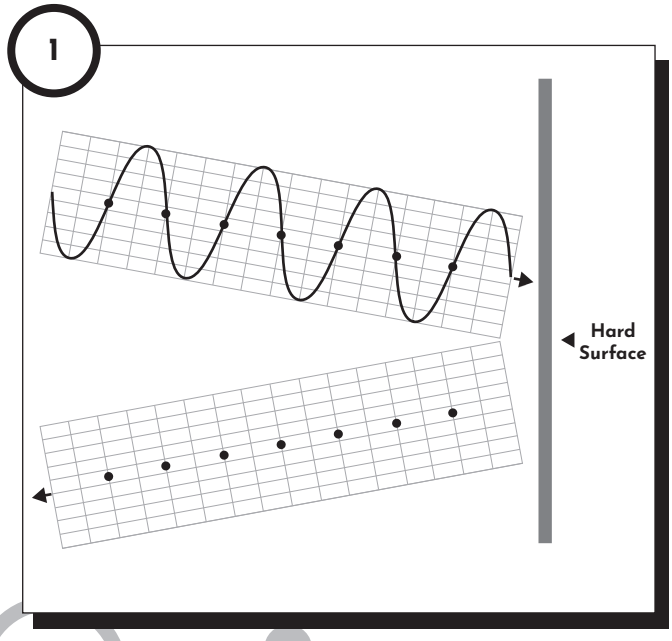
2. _____

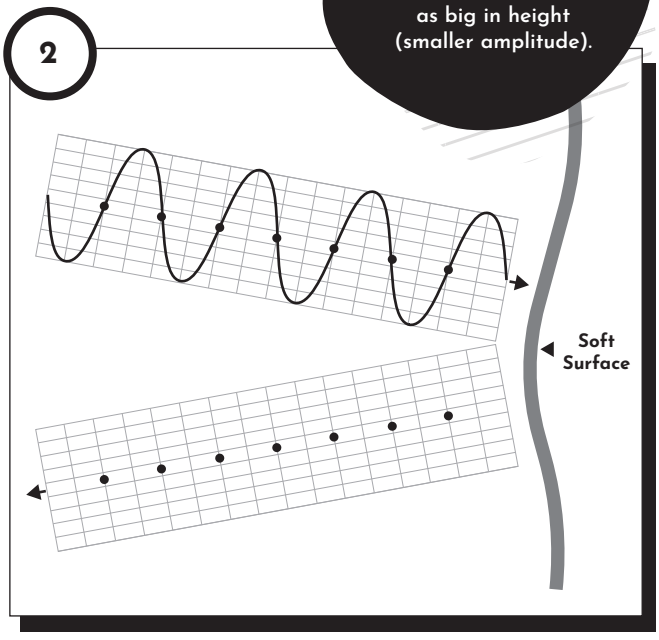
3. _____

4. _____

Connect the dots to draw the sounds waves reflected back from each surface:

Remember the wavelength stays the same, but the wave is not as big in height (smaller amplitude).





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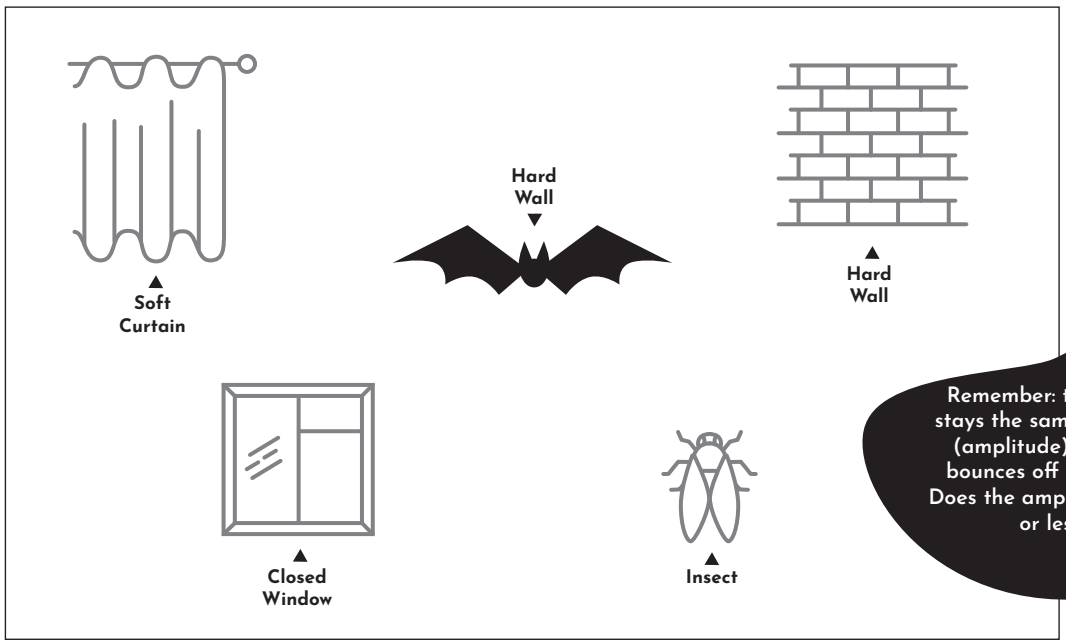
Draw the sound waves being sent **out** by the bat and **reflected back** from these 4 different surfaces:



Remember: the waveLENGTH stays the same, but the HEIGHT (amplitude) changes when it bounces off different surfaces. Does the amplitude become more or less intense?

List examples of each sound and then draw how the wave would look:

LOW FREQUENCY SOUNDS (LOW NUMBER OF WAVELENGTHS)

HIGH FREQUENCY SOUNDS (HIGH NUMBER OF WAVELENGTHS)

HIGH VOLUME (HIGH AMPLITUDE) SOUNDS

LOW VOLUME (LOW AMPLITUDE) SOUNDS

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