

# Block that Noise!

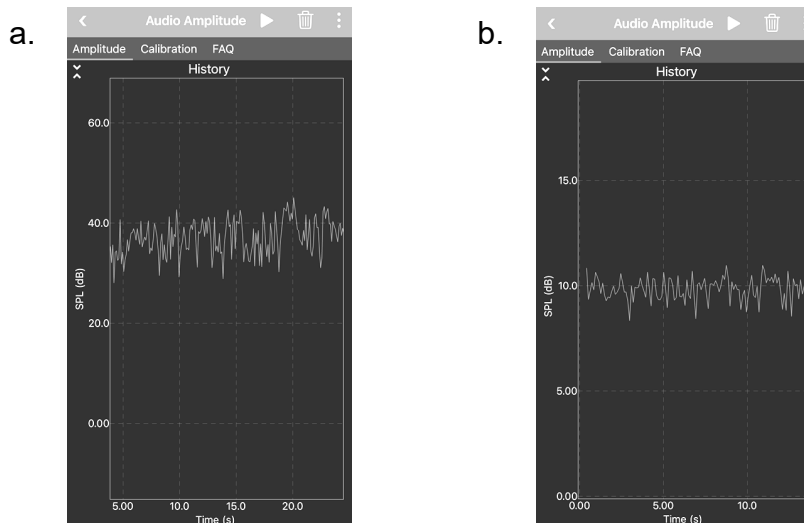
Name: \_\_\_\_\_

Student quiz

Date: \_\_\_\_\_

**Directions:** Circle the best answer for each question below.

1. You shout “HELLO” into a cave and hear an echo. The sound waves you hear are \_\_\_\_\_ from the walls of the cave.  
a. transmitted      b. reflected      c. absorbed      d. a and c
2. The following two graphs show recordings from two different insulating containers that were tested under the same conditions. Which one did a better job reducing noise levels?



3. You live in an apartment building with an upstairs neighbor who likes to play loud music. The music you hear is \_\_\_\_\_ through the ceiling.  
a. reflected      b. absorbed      c. transmitted      d. a and b
4. Your baby sister is crying loudly while you are trying to sleep. You put a pillow over your head to block the noise. You can still hear the crying, but it is not as loud. The sound waves are \_\_\_\_\_ by the pillow.  
a. absorbed      b. transmitted      c. reflected      d. a and b
5. In the engineering design process:  
a. There is no single “right answer” to a problem  
b. Your design might not work on the first try  
c. You might repeat some of the steps  
d. All of the above