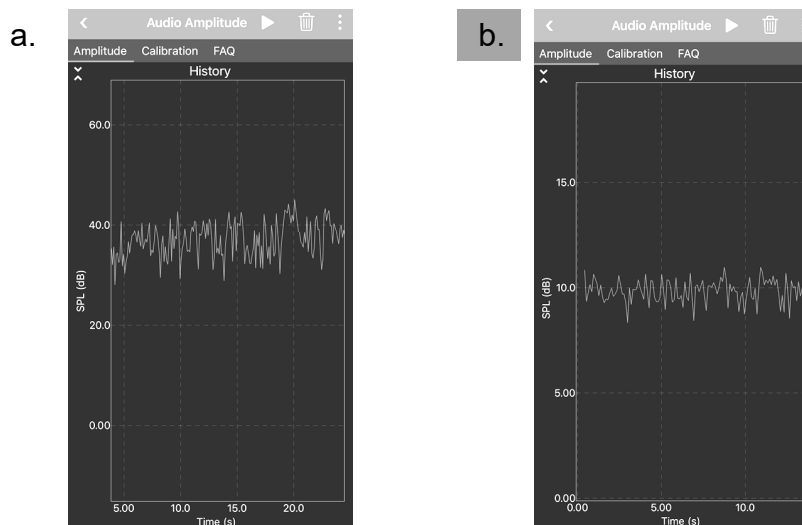


Block that Noise!

Student quiz — Answer key

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