Clicker Question 1

The speed of sound in He gas (lighter than air) is _____ that in air at the same conditions of pressure and temperature.

- A) faster than
- B) slower than
- C) the same as
- D) either faster or slower than

Clicker Question 2

The sound level in a truck is 20 dB greater than the sound level in a Strarbucks cafe. If the intensity in the cafe is 10-7 W/m2 the intensity in the truck is_ W/m².

A) 20 X10⁻⁷

B) 10⁻⁹ C) 10⁻⁵ D) 20

Clicker Question 3

A ripple on a pond propagates on the surface in 2 dimensions. The intensity of the wave (defined as the power per unit length) will _____ as the radius r increases.

- A) decrease as 1/r3
- B) decrease as 1/r2
- C) decrease as 1/r
- D) remain the same.