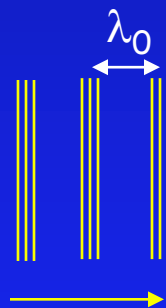


Wavelength ACT

A sound wave having frequency f_0 , speed v_0 and wavelength λ_0 , is traveling through air when it encounters a large helium-filled balloon. Inside the balloon the frequency of the wave is f_1 , its speed is v_1 , and its wavelength is λ_1 . Compare the wavelength of the sound wave inside and outside the balloon.

1. $\lambda_1 < \lambda_0$
2. $\lambda_1 = \lambda_0$
3. $\lambda_1 > \lambda_0$ ← correct



$$\lambda = v/f$$

