

**Answer on Question #72318-Physics-Other**

A tuning fork, frequency 385/sec produces resonance with a closed tube 20cm long and 4cm in diameter what is the speed of sound?

**Solution**

The wavelength is

$$\lambda = 4L.$$

The speed of sound is

$$v = f\lambda = 4Lf = 4(0.2)(385) = 308 \frac{m}{s}.$$

**Answer:  $308 \frac{m}{s}$ .**

**Answer provided by AssignmentExpert.com**