

## Holt Physics

**Problem 13A****INTENSITY OF SOUND WAVES****PROBLEM**

Your friend whistles a secret to you with a power output of  $2.00 \times 10^{-2} \text{ W}$ . If the whistle has a sound intensity of  $4.1 \times 10^{-10} \text{ W/m}^2$ , how far are you from your friend?

**SOLUTION**

Given: Intensity =  $4.1 \times 10^{-10} \text{ W/m}^2$        $P = 2.00 \times 10^{-2} \text{ W}$

Unknown:  $r = ?$

Choose the equation(s) or situation.

Use the equation for the intensity of a spherical wave.

$$\text{Intensity} = \frac{P}{4\pi r^2}$$

$$r = \sqrt{\frac{P}{4\pi(\text{Intensity})}} = \sqrt{\frac{2.00 \times 10^{-2} \text{ W}}{4\pi(4.1 \times 10^{-10} \text{ W/m}^2)}} = \boxed{0.20 \text{ m}}$$

**ADDITIONAL PRACTICE**

- Your friend tells you about what happened last weekend with a power output of  $5.68 \times 10^{-2} \text{ W}$  and a sound intensity of  $5.9 \times 10^{-9} \text{ W/m}^2$ . How far are you from your friend?
- The power output of heavy street traffic is  $1.50 \times 10^{11} \text{ W}$ . At what distance is the sound intensity of the traffic  $5.20 \times 10^{-7} \text{ W/m}^2$ ?
- A subway train in New York City produces sound with a power output of  $6.28 \text{ W}$  and an intensity of  $7.1 \times 10^{-7} \text{ W/m}^2$ . How far are you from the subway train?
- A loud clap of thunder has a power output of  $101 \text{ kW}$  and a sound intensity of  $0.025 \text{ W/m}^2$ . How far are you from the thunder's source?
- What is the intensity of the sound waves produced by the jet engine of a plane taking off at a distance of  $3.2 \text{ m}$  when the power radiated as sound from the engine is  $400 \text{ W}$ ? Assume that the sound waves are spherical.
- Calculate the intensity of the sound waves from a car stereo at a distance of  $0.50 \text{ m}$  when the sound has power output of  $3.5 \text{ W}$ .
- At a maximum level of loudness, the power output of portable radio-headphones radiated as sound is  $2.76 \times 10^{-2} \text{ W}$ . What is the intensity of these sound waves to a jogger whose ear is  $5.0 \text{ cm}$  from the headphone's speaker?

# Holt Physics Sound Problem 13a Answers

**Wenbin Ji**



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