

## 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  $5.9 \times 10^{-10} \text{ W/m}^2$ . 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

**Anthony S. Fauci**



**Holt Physics Sound Problem 13a Answers:**

## Decoding **Holt Physics Sound Problem 13a Answers**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Holt Physics Sound Problem 13a Answers**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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