

## 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

**Annelies Wilder-Smith**



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Holt Physics Raymond A. Serway,2002      **The British Journal of Clinical Practice** ,1950      *Paperbound Books in Print* ,1966      **Problem Workbook** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,1998-04      **Reteaching Worksheets with Answer Key** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,1997-01-01      *Holt Science and Technology* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2001-05      **Indiana Holt Science and Technology Chapter 14 Resource File: the Nature of Sound** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2005-01-01  
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## Whispering the Strategies of Language: An Emotional Quest through **Holt Physics Sound Problem 13a Answers**

In a digitally-driven world wherever monitors reign supreme and quick interaction drowns out the subtleties of language, the profound secrets and psychological subtleties hidden within words frequently go unheard. Yet, situated within the pages of **Holt Physics Sound Problem 13a Answers** a interesting literary prize pulsating with raw emotions, lies an exceptional journey waiting to be undertaken. Written by a skilled wordsmith, this wonderful opus attracts viewers on an introspective trip, lightly unraveling the veiled truths and profound influence resonating within the cloth of each word. Within the psychological depths of this touching evaluation, we will embark upon a honest exploration of the book is core themes, dissect their captivating writing model, and yield to the effective resonance it evokes serious within the recesses of readers hearts.

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### **Table of Contents Holt Physics Sound Problem 13a Answers**

1. Understanding the eBook Holt Physics Sound Problem 13a Answers
  - The Rise of Digital Reading Holt Physics Sound Problem 13a Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Holt Physics Sound Problem 13a Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Holt Physics Sound Problem 13a Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Physics Sound Problem 13a Answers

- Personalized Recommendations
  - Holt Physics Sound Problem 13a Answers User Reviews and Ratings
  - Holt Physics Sound Problem 13a Answers and Bestseller Lists
5. Accessing Holt Physics Sound Problem 13a Answers Free and Paid eBooks
    - Holt Physics Sound Problem 13a Answers Public Domain eBooks
    - Holt Physics Sound Problem 13a Answers eBook Subscription Services
    - Holt Physics Sound Problem 13a Answers Budget-Friendly Options
  6. Navigating Holt Physics Sound Problem 13a Answers eBook Formats
    - ePub, PDF, MOBI, and More
    - Holt Physics Sound Problem 13a Answers Compatibility with Devices
    - Holt Physics Sound Problem 13a Answers Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Holt Physics Sound Problem 13a Answers
    - Highlighting and Note-Taking Holt Physics Sound Problem 13a Answers
    - Interactive Elements Holt Physics Sound Problem 13a Answers
  8. Staying Engaged with Holt Physics Sound Problem 13a Answers
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Holt Physics Sound Problem 13a Answers
  9. Balancing eBooks and Physical Books Holt Physics Sound Problem 13a Answers
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Holt Physics Sound Problem 13a Answers
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Holt Physics Sound Problem 13a Answers
    - Setting Reading Goals Holt Physics Sound Problem 13a Answers
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Holt Physics Sound Problem 13a Answers

- Fact-Checking eBook Content of Holt Physics Sound Problem 13a Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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