Holt Physics

Problem 2A

AVERAGE VELOCITY AND DISPLACEMENT

PROBLEM

The fastest fish, the sailfish, can swim 1.2×10^2 km/h. Suppose you have a friend who lives on an island 16 km away from the shore. If you send a message using a sailfish as a messenger, how long will it take for the message to reach your friend?

SOLUTION

Given:
$$v_{avg} = 1.2 \times 10^2 \text{ km/h}$$

 $\Delta x = 16 \text{ km}$

Unknown:
$$\Delta t = ?$$

Use the definition of average speed to find Δt .

$$v_{avg} = \frac{\Delta x}{\Delta t}$$

Rearrange the equation to calculate Δt .

$$\Delta t = \frac{\Delta x}{v_{avg}}$$

$$\Delta t = \frac{16 \text{ km}}{\left(1.2 \times 10^2 \frac{\text{km}}{\text{b}}\right) \left(\frac{1 \text{ h}}{60 \text{ min}}\right)} = \frac{16 \text{ km}}{2.0 \text{ km/min}}$$

$$= 8.0 \text{ min}$$

ADDITIONAL PRACTICE

- 1. The Sears Tower in Chicago is 443 m tall. Joe wants to set the world's stair climbing record and runs all the way to the roof of the tower. If Joe's average upward speed is 0.60 m/s, how long will it take Joe to climb from street level to the roof of the Sears Tower?
- An ostrich can run at speeds of up to 72 km/h. How long will it take an ostrich to run 1.5 km at this top speed?
- A cheetah is known to be the fastest mammal on Earth, at least for short runs. Cheetahs have been observed running a distance of 5.50 × 10² m with an average speed of 1.00 × 10² km/h.
 - a. How long would it take a cheetah to cover this distance at this speed?
 - b. Suppose the average speed of the cheetah were just 85.0 km/h. What distance would the cheetah cover during the same time interval calculated in (a)?

3

Holt Physics Problem 23a Answer Key

R Bogdan

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Table of Contents Holt Physics Problem 23a Answer Key

- 1. Understanding the eBook Holt Physics Problem 23a Answer Key
 - The Rise of Digital Reading Holt Physics Problem 23a Answer Key
 - o Advantages of eBooks Over Traditional Books
- 2. Identifying Holt Physics Problem 23a Answer Key
 - 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 Problem 23a Answer Key
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Holt Physics Problem 23a Answer Key

- Personalized Recommendations
- Holt Physics Problem 23a Answer Key User Reviews and Ratings
- Holt Physics Problem 23a Answer Key and Bestseller Lists
- 5. Accessing Holt Physics Problem 23a Answer Key Free and Paid eBooks
 - Holt Physics Problem 23a Answer Key Public Domain eBooks
 - Holt Physics Problem 23a Answer Key eBook Subscription Services
 - Holt Physics Problem 23a Answer Key Budget-Friendly Options
- 6. Navigating Holt Physics Problem 23a Answer Key eBook Formats
 - o ePub, PDF, MOBI, and More
 - Holt Physics Problem 23a Answer Key Compatibility with Devices
 - Holt Physics Problem 23a Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Physics Problem 23a Answer Key
 - Highlighting and Note-Taking Holt Physics Problem 23a Answer Key
 - o Interactive Elements Holt Physics Problem 23a Answer Key
- 8. Staying Engaged with Holt Physics Problem 23a Answer Key
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Physics Problem 23a Answer Key
- 9. Balancing eBooks and Physical Books Holt Physics Problem 23a Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Physics Problem 23a Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Holt Physics Problem 23a Answer Key
 - Setting Reading Goals Holt Physics Problem 23a Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Holt Physics Problem 23a Answer Key

- Fact-Checking eBook Content of Holt Physics Problem 23a Answer Key
- 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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