

- 1.6. IDENTIFY: Convert
- $\text{ft}^2$
- to
- $\text{m}^2$
- and then to hectares.

SET UP:  $1.00 \text{ hectare} = 1.00 \times 10^4 \text{ m}^2$ .  $1 \text{ ft} = 0.3048 \text{ m}$ .EXECUTE: The area is  $(12.0 \text{ acres}) \left( \frac{43,600 \text{ ft}^2}{1 \text{ acre}} \right) \left( \frac{0.3048 \text{ m}}{1.00 \text{ ft}} \right)^2 \left( \frac{1.00 \text{ hectare}}{1.00 \times 10^4 \text{ m}^2} \right) = 4.86 \text{ hectares}$ .EVALUATE: Since  $1 \text{ ft} = 0.3048 \text{ m}$ ,  $1 \text{ ft}^2 = (0.3048)^2 \text{ m}^2$ .

- 1.7. IDENTIFY: Convert seconds to years. 1 gigasecond is a billion seconds.

SET UP:  $1 \text{ gigasecond} = 1 \times 10^9 \text{ s}$ .  $1 \text{ day} = 24 \text{ h}$ .  $1 \text{ h} = 3600 \text{ s}$ .EXECUTE:  $1.00 \text{ gigasecond} = (1.00 \times 10^9 \text{ s}) \left( \frac{1 \text{ h}}{3600 \text{ s}} \right) \left( \frac{1 \text{ day}}{24 \text{ h}} \right) \left( \frac{1 \text{ y}}{365 \text{ days}} \right) = 31.7 \text{ y}$ .EVALUATE: The conversion  $1 \text{ y} = 3.156 \times 10^7 \text{ s}$  assumes  $1 \text{ y} = 365.24 \text{ d}$ , which is the average for one extra day every four years, in leap years. The problem says instead to assume a 365-day year.

- 1.8. IDENTIFY: Apply the given conversion factors.

SET UP:  $1 \text{ furlong} = 0.1250 \text{ mi}$  and  $1 \text{ fortnight} = 14 \text{ days}$ .  $1 \text{ day} = 24 \text{ h}$ .EXECUTE:  $(180,000 \text{ furlongs/fortnight}) \left( \frac{0.125 \text{ mi}}{1 \text{ furlong}} \right) \left( \frac{1 \text{ fortnight}}{14 \text{ days}} \right) \left( \frac{1 \text{ day}}{24 \text{ h}} \right) = 67 \text{ mi/h}$ 

EVALUATE: A furlong is less than a mile and a fortnight is many hours, so the speed limit in mph is a much smaller number.

- 1.9. IDENTIFY: Convert miles/gallon to km/L.

SET UP:  $1 \text{ mi} = 1.609 \text{ km}$ .  $1 \text{ gallon} = 3.788 \text{ L}$ .EXECUTE: (a)  $55.0 \text{ miles/gallon} = (55.0 \text{ miles/gallon}) \left( \frac{1.609 \text{ km}}{1 \text{ mi}} \right) \left( \frac{1 \text{ gallon}}{3.788 \text{ L}} \right) = 23.4 \text{ km/L}$ .(b) The volume of gas required is  $\frac{1500 \text{ km}}{23.4 \text{ km/L}} = 64.1 \text{ L}$ .  $\frac{64.1 \text{ L}}{45 \text{ L/tank}} = 1.4 \text{ tanks}$ .EVALUATE:  $1 \text{ mi/gal} = 0.425 \text{ km/L}$ . A km is very roughly half a mile and there are roughly 4 liters in a gallon, so  $1 \text{ mi/gal} \approx \frac{1}{4} \text{ km/L}$ , which is roughly our result.

- 1.10. IDENTIFY: Convert units.

SET UP: Use the unit conversions given in the problem. Also,  $100 \text{ cm} = 1 \text{ m}$  and  $1000 \text{ g} = 1 \text{ kg}$ .EXECUTE: (a)  $\left( 60 \frac{\text{mi}}{\text{h}} \right) \left( \frac{1 \text{ h}}{3600 \text{ s}} \right) \left( \frac{5280 \text{ ft}}{1 \text{ mi}} \right) = 88 \frac{\text{ft}}{\text{s}}$ (b)  $\left( 32 \frac{\text{ft}}{\text{s}^2} \right) \left( \frac{30.48 \text{ cm}}{1 \text{ ft}} \right) \left( \frac{1 \text{ m}}{100 \text{ cm}} \right) = 9.8 \frac{\text{m}}{\text{s}^2}$ (c)  $\left( 1.0 \frac{\text{g}}{\text{cm}^3} \right) \left( \frac{100 \text{ cm}}{1 \text{ m}} \right)^3 \left( \frac{1 \text{ kg}}{1000 \text{ g}} \right) = 10^3 \frac{\text{kg}}{\text{m}^3}$ EVALUATE: The relations  $60 \text{ mi/h} = 88 \text{ ft/s}$  and  $1 \text{ g/cm}^3 = 10^3 \text{ kg/m}^3$  are exact. The relation  $32 \text{ ft/s}^2 = 9.8 \text{ m/s}^2$  is accurate to only two significant figures.

- 1.11. IDENTIFY: We know the density and mass; thus we can find the volume using the relation
- $\text{density} = \text{mass}/V$
- . The radius is then found from the volume equation for a sphere and the result for the volume.

SET UP: Density  $= 19.5 \text{ g/cm}^3$  and  $m_{\text{crystal}} = 60.0 \text{ kg}$ . For a sphere  $V = \frac{4}{3}\pi r^3$ .EXECUTE:  $V = m_{\text{crystal}}/\text{density} = \left( \frac{60.0 \text{ kg}}{19.5 \text{ g/cm}^3} \right) \left( \frac{1000 \text{ g}}{1.0 \text{ kg}} \right) = 3080 \text{ cm}^3$ .

# Mastering Physics Solutions Manual Units Physical Quantities

**TD Snyder**



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## **Table of Contents Mastering Physics Solutions Manual Units Physical Quantities**

1. Understanding the eBook Mastering Physics Solutions Manual Units Physical Quantities
  - The Rise of Digital Reading Mastering Physics Solutions Manual Units Physical Quantities
  - Advantages of eBooks Over Traditional Books
2. Identifying Mastering Physics Solutions Manual Units Physical Quantities
  - 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 Mastering Physics Solutions Manual Units Physical Quantities
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mastering Physics Solutions Manual Units Physical Quantities
  - Personalized Recommendations
  - Mastering Physics Solutions Manual Units Physical Quantities User Reviews and Ratings

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