

UNITS, PHYSICAL QUANTITIES AND VECTORS

1.1. IDENTIFY: Convert units from mi to km and from km to ft.

SET UP: 1 in. = 2.54 cm, 1 km = 1000 m, 12 in. = 1 ft, 1 mi = 5280 ft.

EXECUTE: (a) $1.00 \text{ mi} = (1.00 \text{ mi}) \left(\frac{5280 \text{ ft}}{1 \text{ mi}} \right) \left(\frac{12 \text{ in.}}{1 \text{ ft}} \right) \left(\frac{2.54 \text{ cm}}{1 \text{ in.}} \right) \left(\frac{1 \text{ m}}{10^2 \text{ cm}} \right) \left(\frac{1 \text{ km}}{10^3 \text{ m}} \right) = 1.61 \text{ km}$

(b) $1.00 \text{ km} = (1.00 \text{ km}) \left(\frac{10^3 \text{ m}}{1 \text{ km}} \right) \left(\frac{10^2 \text{ cm}}{1 \text{ m}} \right) \left(\frac{1 \text{ in.}}{2.54 \text{ cm}} \right) \left(\frac{1 \text{ ft}}{12 \text{ in.}} \right) = 3.28 \times 10^3 \text{ ft}$

EVALUATE: A mile is a greater distance than a kilometer. There are 5280 ft in a mile but only 3280 ft in a km.

1.2. IDENTIFY: Convert volume units from L to in.^3 .

SET UP: 1 L = 1000 cm^3 , 1 in. = 2.54 cm

EXECUTE: $0.473 \text{ L} \times \left(\frac{1000 \text{ cm}^3}{1 \text{ L}} \right) \times \left(\frac{1 \text{ in.}}{2.54 \text{ cm}} \right)^3 = 28.9 \text{ in.}^3$

EVALUATE: 1 in.^3 is greater than 1 cm^3 , so the volume in in.^3 is a smaller number than the volume in cm^3 , which is 473 cm^3 .

1.3. IDENTIFY: We know the speed of light in m/s. $t = d/v$. Convert 1.00 ft to m and t from s to ns.

SET UP: The speed of light is $c = 3.00 \times 10^8 \text{ m/s}$, 1 ft = 0.3048 m, 1 s = 10^9 ns .

EXECUTE: $t = \frac{0.3048 \text{ m}}{3.00 \times 10^8 \text{ m/s}} = 1.02 \times 10^{-9} \text{ s} = 1.02 \text{ ns}$

EVALUATE: In 1.00 s light travels $3.00 \times 10^8 \text{ m} = 3.00 \times 10^5 \text{ km} = 1.86 \times 10^5 \text{ mi}$.

1.4. IDENTIFY: Convert the units from g to kg and from cm^3 to m^3 .

SET UP: 1 kg = 1000 g, 1 m = 100 cm.

EXECUTE: $19.3 \frac{\text{g}}{\text{cm}^3} \times \left(\frac{1 \text{ kg}}{1000 \text{ g}} \right) \times \left(\frac{100 \text{ cm}}{1 \text{ m}} \right)^3 = 1.93 \times 10^4 \frac{\text{kg}}{\text{m}^3}$

EVALUATE: The ratio that converts cm to m is cubed, because we need to convert cm^3 to m^3 .

1.5. IDENTIFY: Convert volume units from in.^3 to L.

SET UP: 1 L = 1000 cm^3 , 1 in. = 2.54 cm.

EXECUTE: $(327 \text{ in.}^3) \times (2.54 \text{ cm/in.})^3 \times (1 \text{ L}/1000 \text{ cm}^3) = 5.36 \text{ L}$

EVALUATE: The volume is 5360 cm^3 . 1 cm^3 is less than 1 in.^3 , so the volume in cm^3 is a larger number than the volume in in.^3 .

1.6. IDENTIFY: Convert ft^2 to m^2 and then to hectares.

SET UP: 1.00 hectare = $1.00 \times 10^4 \text{ m}^2$, 1 ft = 0.3048 m.

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Table of Contents Solution University Physics 13th Edition

1. Understanding the eBook Solution University Physics 13th Edition
 - The Rise of Digital Reading Solution University Physics 13th Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution University Physics 13th Edition
 - 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 Solution University Physics 13th Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution University Physics 13th Edition
 - Personalized Recommendations

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

- 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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