

Dimensional Analysis Worksheet KEY

1. Use Dimensional Analysis to solve the following problems.

- a. How many seconds old are you? (Express with 2 sig figs in scientific notation.) [assume 22 yrs old]

$$\frac{22 \cancel{\text{yr}}}{1} \times \frac{365 \cancel{\text{yr}}}{1 \cancel{\text{yr}}} \times \frac{24 \cancel{\text{h}}}{1 \cancel{\text{h}}} \times \frac{3600 \text{ s}}{1 \cancel{\text{s}}} = 693,792,000 = 690,000,000 = 6.9 \times 10^8$$

- b. Convert the distance from school to home from miles to inches. (2 sig figs in sci. not.) [assume 5.2 mi.]

$$\frac{5.2 \text{ mi}}{1} \times \frac{5280 \text{ ft}}{1 \text{ mi}} \times \frac{12 \text{ in}}{1 \text{ ft}} = 329,472 = 330,000 = 3.3 \times 10^5 \text{ in}$$

- c. How many kilometers is it from school to home? (Express with 2 sig figs in scientific notation.)

$$\frac{5.2 \text{ mi}}{1} \times \frac{1.6 \text{ km}}{1 \text{ mi}} = 8.32 = 8.3 \text{ km}$$

- d. A person's weight is 154 pounds. Convert this to kilograms. (1 lbs. = 454 grams)

$$\frac{154 \text{ lb}}{1} \times \frac{454 \text{ g}}{1 \text{ lb}} \times \frac{1 \text{ kg}}{1000 \text{ g}} = 69.916 = 69.9 \text{ kg}$$

2. Solve using the conversion factors that are listed in the table below.

- a. Your cruise ship is leaving for a 610-league adventure. How many nautical miles is this?

$$\frac{610 \cancel{\text{leagues}}}{1} \times \frac{5280 \cancel{\text{yd}}}{1 \cancel{\text{league}}} \times \frac{3 \cancel{\text{ft}}}{1 \cancel{\text{yd}}} \times \frac{1 \text{ naut. mile}}{6076 \cancel{\text{ft}}} = 1590.256748 = 1600 \text{ naut. miles}$$

- b. Later the ship is discovered at 38 fathoms deep under water. Convert this to meters.

$$\frac{38 \cancel{\text{fathoms}}}{1} \times \frac{6 \cancel{\text{ft}}}{1 \cancel{\text{fathom}}} \times \frac{12 \cancel{\text{in}}}{1 \cancel{\text{ft}}} \times \frac{2.54 \cancel{\text{cm}}}{1 \cancel{\text{in}}} \times \frac{1 \text{ m}}{100 \cancel{\text{cm}}} = 69.4944 = 69 \text{ m}$$

- c. Fortunately you survived! You are stranded on a deserted island that is located 12.5 degrees north of the equator. How many kilometers is this?

$$\frac{12.5 \cancel{\text{degrees}}}{1} \times \frac{69,047 \text{ mi}}{1 \cancel{\text{degree}}} \times \frac{5280 \text{ ft}}{1 \text{ mi}} \times \frac{12 \text{ in}}{1 \text{ ft}} \times \frac{2.54 \text{ cm}}{1 \text{ in}} \times \frac{1 \text{ m}}{100 \text{ cm}} \times \frac{\text{km}}{1000 \text{ m}} \times \frac{100,000}{100,000} = 138,900.469 = 1390 \text{ km}$$

- d. If you are rationed to 32 gills of fresh water a day. How many liters is this?

$$\frac{32 \text{ gills}}{1} \times \frac{1 \text{ pt}}{4 \text{ gills}} \times \frac{1 \text{ qt}}{2 \text{ pt}} \times \frac{1 \text{ L}}{1.06 \text{ qt}} = 3.77358 \dots = 3.8 \text{ L}$$

- f. To reach the top of a palm tree for a coconut you will have to climb 7.4 meters. How many hands is this?

$$\frac{7.4 \text{ m}}{1} \times \frac{100 \text{ cm}}{1 \text{ m}} \times \frac{1 \text{ in}}{2.54 \text{ cm}} \times \frac{1 \text{ hand}}{4 \text{ in}} = 72.83464 \dots = 73 \text{ hands}$$

- g. The island is rich with hot chile peppers. You can collect 1.6 pecks a day. How many liters could you collect in 1 week?

$$\frac{1.6 \text{ pecks}}{1} \times \frac{32 \text{ qt}}{4 \text{ pecks}} \times \frac{1 \text{ L}}{1.06 \text{ qt}} \times \frac{7 \text{ d}}{1 \text{ week}} = 84.52830 \dots = 85 \text{ L/week}$$

e. $\frac{3.5 \text{ T.S.}}{1} \times \frac{36 \text{ mi}^2}{1 \text{ T.S.}} \times \frac{(5280)^2 \text{ ft}^2}{1 \text{ mi}^2} \times \frac{1 \text{ yd}^2}{9 \text{ ft}^2} = 3.9 \times 10^8 \text{ yd}^2$

Chemistry Dimensional Analysis Calculations Study Guide Answers

Iris Stovall, Steven S. Zumdahl



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Table of Contents Chemistry Dimensional Analysis Calculations Study Guide Answers

1. Understanding the eBook Chemistry Dimensional Analysis Calculations Study Guide Answers
 - The Rise of Digital Reading Chemistry Dimensional Analysis Calculations Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Dimensional Analysis Calculations Study Guide 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 Chemistry Dimensional Analysis Calculations Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Dimensional Analysis Calculations Study Guide Answers

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

- Fact-Checking eBook Content of Chemistry Dimensional Analysis Calculations Study Guide 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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