

Dimensional Analysis Practice Worksheet Solutions

Complete this and place it in your portfolio after section 2-2. I will email the solutions later so that you can check your work (make sure you are showing the work the same way you see it in the solutions, using dimensional analysis). It is important that you practice and learn to use dimensional analysis (multiplying by unit fractions) appropriately. Make sure you get help if you are still having difficulties with this topic. Use my office hours or the math tutors in the Student Learning Center in the library. You do not have to write sentences on this practice worksheet. You do need to show all of the units and use \approx for approximations.

Do the following conversions using dimensional analysis using the conversion factors on page 74 of your text. You should be doing these all in one computation (even if you have to use more than one unit fraction), not several computations. I have done #1 as example.

1. 5400 inches to miles

$$5400 \cancel{\text{in.}} \times \frac{1 \cancel{\text{ft}}}{12 \cancel{\text{in.}}} \times \frac{1 \text{ mi}}{5280 \cancel{\text{ft}}} = \frac{5400}{63360} \text{ mi} \\ \approx 0.085 \text{ mi}$$

2. 13 weeks to seconds

$$13 \cancel{\text{ weeks}} \times \frac{7 \cancel{\text{ days}}}{1 \cancel{\text{ week}}} \times \frac{24 \cancel{\text{ hrs}}}{1 \cancel{\text{ day}}} \times \frac{60 \cancel{\text{ min}}}{1 \cancel{\text{ hr}}} \times \frac{60 \text{ sec}}{1 \cancel{\text{ min}}} = 7,862,400 \text{ sec}$$

3. 54 yards to mm

$$54 \cancel{\text{ yards}} \times \frac{3 \cancel{\text{ feet}}}{1 \cancel{\text{ yd}}} \times \frac{1 \cancel{\text{ m}}}{3.28 \cancel{\text{ ft}}} \times \frac{1000 \text{ mm}}{1 \cancel{\text{ m}}} = \frac{162000}{3.28} \text{ mm} \\ \approx 49,390.24 \text{ mm}$$

4. $36 \frac{\text{cm}}{\text{sec}}$ to mph

$$\frac{36 \cancel{\text{ cm}}}{1 \cancel{\text{ sec}}} \times \frac{60 \cancel{\text{ sec}}}{1 \text{ hr}} \times \frac{1 \cancel{\text{ m}}}{1000 \cancel{\text{ cm}}} \times \frac{3.28 \cancel{\text{ ft}}}{1 \cancel{\text{ m}}} \times \frac{1 \text{ mi}}{5280 \cancel{\text{ ft}}} = \frac{7084.8 \text{ mi}}{5280000 \text{ hr}} \\ \approx 0.00134 \frac{\text{mi}}{\text{hr}}$$

Chem 101 Activity On Dimensional Analysis Answers

Tobias Bleicker



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Table of Contents Chem 101 Activity On Dimensional Analysis Answers

1. Understanding the eBook Chem 101 Activity On Dimensional Analysis Answers
 - The Rise of Digital Reading Chem 101 Activity On Dimensional Analysis Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chem 101 Activity On Dimensional Analysis 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 Chem 101 Activity On Dimensional Analysis Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chem 101 Activity On Dimensional Analysis Answers

- Personalized Recommendations
 - Chem 101 Activity On Dimensional Analysis Answers User Reviews and Ratings
 - Chem 101 Activity On Dimensional Analysis Answers and Bestseller Lists
5. Accessing Chem 101 Activity On Dimensional Analysis Answers Free and Paid eBooks
 - Chem 101 Activity On Dimensional Analysis Answers Public Domain eBooks
 - Chem 101 Activity On Dimensional Analysis Answers eBook Subscription Services
 - Chem 101 Activity On Dimensional Analysis Answers Budget-Friendly Options
 6. Navigating Chem 101 Activity On Dimensional Analysis Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Chem 101 Activity On Dimensional Analysis Answers Compatibility with Devices
 - Chem 101 Activity On Dimensional Analysis Answers Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chem 101 Activity On Dimensional Analysis Answers
 - Highlighting and Note-Taking Chem 101 Activity On Dimensional Analysis Answers
 - Interactive Elements Chem 101 Activity On Dimensional Analysis Answers
 8. Staying Engaged with Chem 101 Activity On Dimensional Analysis Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chem 101 Activity On Dimensional Analysis Answers
 9. Balancing eBooks and Physical Books Chem 101 Activity On Dimensional Analysis Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chem 101 Activity On Dimensional Analysis Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Chem 101 Activity On Dimensional Analysis Answers
 - Setting Reading Goals Chem 101 Activity On Dimensional Analysis Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Chem 101 Activity On Dimensional Analysis Answers

- Fact-Checking eBook Content of Chem 101 Activity On Dimensional Analysis 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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