

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

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

Chemistry Dimensional Analysis Practice Problems Answers

JA Banks



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Table of Contents Chemistry Dimensional Analysis Practice Problems Answers

1. Understanding the eBook Chemistry Dimensional Analysis Practice Problems Answers
 - The Rise of Digital Reading Chemistry Dimensional Analysis Practice Problems Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Dimensional Analysis Practice Problems 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 Practice Problems Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Dimensional Analysis Practice Problems Answers
 - Personalized Recommendations
 - Chemistry Dimensional Analysis Practice Problems Answers User Reviews and Ratings
 - Chemistry Dimensional Analysis Practice Problems Answers and Bestseller Lists
5. Accessing Chemistry Dimensional Analysis Practice Problems Answers Free and Paid eBooks

- Chemistry Dimensional Analysis Practice Problems Answers Public Domain eBooks
 - Chemistry Dimensional Analysis Practice Problems Answers eBook Subscription Services
 - Chemistry Dimensional Analysis Practice Problems Answers Budget-Friendly Options
6. Navigating Chemistry Dimensional Analysis Practice Problems Answers eBook Formats
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 - Chemistry Dimensional Analysis Practice Problems Answers Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chemistry Dimensional Analysis Practice Problems Answers
 - Highlighting and Note-Taking Chemistry Dimensional Analysis Practice Problems Answers
 - Interactive Elements Chemistry Dimensional Analysis Practice Problems Answers
 8. Staying Engaged with Chemistry Dimensional Analysis Practice Problems Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chemistry Dimensional Analysis Practice Problems Answers
 9. Balancing eBooks and Physical Books Chemistry Dimensional Analysis Practice Problems Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chemistry Dimensional Analysis Practice Problems Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Chemistry Dimensional Analysis Practice Problems Answers
 - Setting Reading Goals Chemistry Dimensional Analysis Practice Problems Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Chemistry Dimensional Analysis Practice Problems Answers
 - Fact-Checking eBook Content of Chemistry Dimensional Analysis Practice Problems 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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