

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

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

Dimensional Analysis Practice Problems Answer Key

George Tyler Miller



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Table of Contents Dimensional Analysis Practice Problems Answer Key

1. Understanding the eBook Dimensional Analysis Practice Problems Answer Key
 - The Rise of Digital Reading Dimensional Analysis Practice Problems Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Dimensional Analysis Practice Problems Answer Key
 - 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 Dimensional Analysis Practice Problems Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Dimensional Analysis Practice Problems Answer Key
 - Personalized Recommendations

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

- 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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