

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

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

Dimensional Analysis Practice Problems With Answers

Fred M. Dewey



Dimensional Analysis Practice Problems With Answers:

The book delves into Dimensional Analysis Practice Problems With Answers. Dimensional Analysis Practice Problems With Answers is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Dimensional Analysis Practice Problems With Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Dimensional Analysis Practice Problems With Answers
 - Chapter 2: Essential Elements of Dimensional Analysis Practice Problems With Answers
 - Chapter 3: Dimensional Analysis Practice Problems With Answers in Everyday Life
 - Chapter 4: Dimensional Analysis Practice Problems With Answers in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Dimensional Analysis Practice Problems With Answers. This chapter will explore what Dimensional Analysis Practice Problems With Answers is, why Dimensional Analysis Practice Problems With Answers is vital, and how to effectively learn about Dimensional Analysis Practice Problems With Answers.
 3. In chapter 2, this book will delve into the foundational concepts of Dimensional Analysis Practice Problems With Answers. This chapter will elucidate the essential principles that need to be understood to grasp Dimensional Analysis Practice Problems With Answers in its entirety.
 4. In chapter 3, the author will examine the practical applications of Dimensional Analysis Practice Problems With Answers in daily life. This chapter will showcase real-world examples of how Dimensional Analysis Practice Problems With Answers can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Dimensional Analysis Practice Problems With Answers in specific contexts. The fourth chapter will explore how Dimensional Analysis Practice Problems With Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Dimensional Analysis Practice Problems With Answers. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Dimensional Analysis Practice Problems With Answers.

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