

## 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 Questions And Answers

**Raffaella Di Napoli**



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## **Table of Contents Dimensional Analysis Questions And Answers**

1. Understanding the eBook Dimensional Analysis Questions And Answers
  - The Rise of Digital Reading Dimensional Analysis Questions And Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Dimensional Analysis Questions And 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 Dimensional Analysis Questions And Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Dimensional Analysis Questions And Answers
  - Personalized Recommendations
  - Dimensional Analysis Questions And Answers User Reviews and Ratings
  - Dimensional Analysis Questions And Answers and Bestseller Lists
5. Accessing Dimensional Analysis Questions And Answers Free and Paid eBooks
  - Dimensional Analysis Questions And Answers Public Domain eBooks
  - Dimensional Analysis Questions And Answers eBook Subscription Services
  - Dimensional Analysis Questions And Answers Budget-Friendly Options

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