

## Dimensional Analysis Practice Answer Key

### Conversions Factors

1 hr = 60 min	1 min = 60 sec	1 ton = 2000 lbs	7 days = 1 week
24 hrs = 1 day	1 kg = 2.2 lbs	1 gal = 3.79 L	1 m = 100 cm
1 mi = 5,280 ft	1 kg = 1000 g	1 lb = 16 oz	1 m = 1000 mm
365 days = 1 yr	52 weeks = 1 yr	2.54 cm = 1 in	1 L = 1000 mL
0.621 mi = 1.00 km	1 yd = 36 inches	1 km = 1000 m	1 mL = 1 cm <sup>3</sup>

Please make sure to show all work! Include units in your work!

1. How many miles will a person run during a 10 kilometer race?

$$10 \text{ Km} \times \frac{0.621 \text{ mi}}{1 \text{ Km}} = \boxed{6.21 \text{ mi}}$$

2. The moon is 250,000 miles away. How many feet is it from earth?

$$250,000 \text{ mi} \times \frac{5,280 \text{ ft}}{1 \text{ mi}} = \boxed{1,320,000,000 \text{ ft}}$$

3. A pool holds 1,300,000 gallons of water. How many liters is this?

$$1,300,000 \text{ gal} \times \frac{3.79 \text{ L}}{1 \text{ gal}} = \boxed{4,927,000 \text{ L}}$$

4. If a person weighs 125.5 lbs., how many mg do they weigh?

$$125.5 \text{ lbs} \times \frac{1 \text{ kg}}{2.2 \text{ lbs}} \times \frac{1000 \text{ g}}{1 \text{ kg}} \times \frac{1000 \text{ mg}}{1 \text{ g}} = \boxed{57,045,454.55 \text{ mg}}$$

5. The distance from Santa Maria to Los Alamos is 16.25 mi. What is the distance in cm?

$$16.25 \text{ mi} \times \frac{1 \text{ Km}}{0.621 \text{ mi}} \times \frac{1000 \text{ m}}{1 \text{ Km}} \times \frac{100 \text{ cm}}{1 \text{ m}} = \boxed{2616,747.182 \text{ cm}}$$

6. During the previous year, Zach's weather station measured 0.8 yards of rain. Express this amount in cm.

$$0.8 \text{ yd} \times \frac{36 \text{ in}}{1 \text{ yd}} \times \frac{2.54 \text{ cm}}{1 \text{ in}} = \boxed{73.152 \text{ cm}}$$

# Dimensional Analysis Practice With Answer Key

**Liyong Dong**



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## **Table of Contents Dimensional Analysis Practice With Answer Key**

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

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