

ANSWERS TO CONVERSION FACTOR PROBLEMS

Conversion factors can be used to convert units or to convert between equivalent ways of expressing a quantity. The quantity in the problem is multiplied by one or more "conversion factors," in which the numerator is equal to the denominator. Since the numerator and denominator of the conversion factor are equal, multiplying by the conversion factor is like multiplying by 1 and thus does not change the value of the original quantity. Use the table of English to Metric equivalents as needed. All answers should be in *significant figures*!

A) Problems with a single conversion factor.

1. How many cm are in 18.9 inches?

$$18.9 \text{ in} \times \frac{2.54 \text{ cm}}{1 \text{ in}} = 47.5 \text{ cm}$$

2. How many grams are in 0.143 ounces?

$$0.143 \text{ oz} \times \frac{1 \text{ gram}}{0.03527 \text{ oz}} = 4.05 \text{ grams}$$

B) Problems with two or more conversion factors.

1. How many mL are in 0.037 quarts?

$$0.037 \text{ qt} \times \frac{1 \text{ L}}{1.057 \text{ qt}} \times \frac{1000 \text{ mL}}{1 \text{ L}} = 35 \text{ mL}$$

2. How many grams are in 0.397 pounds (lbs)?

$$0.397 \text{ lb} \times \frac{1 \text{ kg}}{2.20 \text{ lb}} \times \frac{1000 \text{ g}}{1 \text{ kg}} = 180 \text{ g} = 1.80 \times 10^3 \text{ g}$$

3. How many micrograms are in 6.8×10^{-7} ounces?

$$6.8 \times 10^{-7} \text{ oz} \times \frac{1 \text{ g}}{0.0353 \text{ g}} \times \frac{1000 \text{ mg}}{1 \text{ g}} \times \frac{1000 \text{ } \mu\text{g}}{1 \text{ mg}} = 19 \text{ } \mu\text{g}$$

C) Using density as a conversion factor. The density of Al is 2.70 g/cm^3 .

Remember, $1 \text{ mL} = 1 \text{ cm}^3$.

1. What is the volume of 0.810 grams of Al?

$$0.810 \text{ g} \times \frac{1 \text{ cm}^3}{2.70 \text{ g}} = 0.300 \text{ cm}^3 \text{ (or } 0.300 \text{ mL)}$$

2. Find the mass in grams of 0.327 liters of Al.

$$0.327 \text{ L} \times \frac{1000 \text{ mL}}{1 \text{ L}} \times \frac{1 \text{ cm}^3}{1 \text{ mL}} \times \frac{2.70 \text{ g}}{1 \text{ cm}^3} = 883 \text{ g}$$

Chemistry Conversion Factors Practice Problems With Solutions

E Durkheim



Chemistry Conversion Factors Practice Problems With Solutions:

The book delves into Chemistry Conversion Factors Practice Problems With Solutions. Chemistry Conversion Factors Practice Problems With Solutions is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Chemistry Conversion Factors Practice Problems With Solutions, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Chemistry Conversion Factors Practice Problems With Solutions
 - Chapter 2: Essential Elements of Chemistry Conversion Factors Practice Problems With Solutions
 - Chapter 3: Chemistry Conversion Factors Practice Problems With Solutions in Everyday Life
 - Chapter 4: Chemistry Conversion Factors Practice Problems With Solutions in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Chemistry Conversion Factors Practice Problems With Solutions. This chapter will explore what Chemistry Conversion Factors Practice Problems With Solutions is, why Chemistry Conversion Factors Practice Problems With Solutions is vital, and how to effectively learn about Chemistry Conversion Factors Practice Problems With Solutions.
3. In chapter 2, this book will delve into the foundational concepts of Chemistry Conversion Factors Practice Problems With Solutions. The second chapter will elucidate the essential principles that must be understood to grasp Chemistry Conversion Factors Practice Problems With Solutions in its entirety.
4. In chapter 3, the author will examine the practical applications of Chemistry Conversion Factors Practice Problems With Solutions in daily life. The third chapter will showcase real-world examples of how Chemistry Conversion Factors Practice Problems With Solutions can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Chemistry Conversion Factors Practice Problems With Solutions in specific contexts. This chapter will explore how Chemistry Conversion Factors Practice Problems With Solutions is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Chemistry Conversion Factors Practice Problems With Solutions. This chapter will summarize the key points that have been discussed throughout the book.

The 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 Chemistry Conversion Factors Practice Problems With Solutions.

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