

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

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Table of Contents Chemistry Conversion Factors Practice Problems With Solutions

1. Understanding the eBook Chemistry Conversion Factors Practice Problems With Solutions
 - The Rise of Digital Reading Chemistry Conversion Factors Practice Problems With Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Conversion Factors Practice Problems With Solutions
 - 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 Chemistry Conversion Factors Practice Problems With Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Conversion Factors Practice Problems With Solutions
 - Personalized Recommendations
 - Chemistry Conversion Factors Practice Problems With Solutions User Reviews and Ratings
 - Chemistry Conversion Factors Practice Problems With Solutions and Bestseller Lists
5. Accessing Chemistry Conversion Factors Practice Problems With Solutions Free and Paid eBooks
 - Chemistry Conversion Factors Practice Problems With Solutions Public Domain eBooks
 - Chemistry Conversion Factors Practice Problems With Solutions eBook Subscription Services
 - Chemistry Conversion Factors Practice Problems With Solutions Budget-Friendly Options
6. Navigating Chemistry Conversion Factors Practice Problems With Solutions eBook Formats

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