

METRICS AND MEASUREMENT

Name _____

In the chemistry classroom and lab, the metric system of measurement is used, so it is important to be able to convert from one unit to another.

mega	kilo	hecto	deca	Basic Unit	deci	centi	milli	micro
(M)	(k)	(h)	(da)	gram (g)	(d)	(c)	(m)	(u)
1,000,000	1,000	100	10	liter (L)	.1	.01	.001	.000001
10^6	10^3	10^2	10^1	meter (m)	10^{-1}	10^{-2}	10^{-3}	10^{-6}

Factor Label Method

1. Write the given number and unit.
2. Set up a conversion factor (fraction used to convert one unit to another).
 - a. Place the given unit as denominator of conversion factor.
 - b. Place desired unit as numerator.
 - c. Place a "1" in front of the larger unit.
 - d. Determine the number of smaller units needed to make "1" of the larger unit.
3. Cancel units. Solve the problem.

Example 1: 55 mm = _____ m

$$\frac{55 \text{ mm}}{1} \times \frac{1 \text{ m}}{1000 \text{ mm}} = 0.055 \text{ m}$$

Example 2: 88 km = _____ m

$$\frac{88 \text{ km}}{1} \times \frac{1000 \text{ m}}{1 \text{ km}} = 88,000 \text{ m}$$

Example 3: 7000 cm = _____ hm

$$\frac{7000 \text{ cm}}{1} \times \frac{1 \text{ m}}{100 \text{ cm}} \times \frac{1 \text{ hm}}{100 \text{ m}} = 0.7 \text{ hm}$$

Example 4: 8 dL = _____ dL

$$\frac{8 \text{ dL}}{1} \times \frac{10 \text{ L}}{1 \text{ dL}} \times \frac{10 \text{ dL}}{1 \text{ L}} = 800 \text{ dL}$$

The factor label method can be used to solve virtually any problem including changes in units. It is especially useful in making complex conversions dealing with concentrations and derived units.

Convert the following.

1. 35 mL = _____ dL

2. 950 g = _____ kg

3. 275 mm = _____ cm

4. 1,000 L = _____ kL

5. 1,000 mL = _____ L

6. 4,500 mg = _____ g

7. 25 cm = _____ mm

8. 0.005 kg = _____ dag

9. 0.075 m = _____ cm

10. 15 g = _____ mg

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Table of Contents Instructional Fair Inc Answers Chemistry If8765

1. Understanding the eBook Instructional Fair Inc Answers Chemistry If8765
 - The Rise of Digital Reading Instructional Fair Inc Answers Chemistry If8765
 - Advantages of eBooks Over Traditional Books
2. Identifying Instructional Fair Inc Answers Chemistry If8765
 - 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 Instructional Fair Inc Answers Chemistry If8765
 - User-Friendly Interface
4. Exploring eBook Recommendations from Instructional Fair Inc Answers Chemistry If8765
 - Personalized Recommendations
 - Instructional Fair Inc Answers Chemistry If8765 User Reviews and Ratings
 - Instructional Fair Inc Answers Chemistry If8765 and Bestseller Lists

5. Accessing Instructional Fair Inc Answers Chemistry If8765 Free and Paid eBooks
 - Instructional Fair Inc Answers Chemistry If8765 Public Domain eBooks
 - Instructional Fair Inc Answers Chemistry If8765 eBook Subscription Services
 - Instructional Fair Inc Answers Chemistry If8765 Budget-Friendly Options
6. Navigating Instructional Fair Inc Answers Chemistry If8765 eBook Formats
 - ePub, PDF, MOBI, and More
 - Instructional Fair Inc Answers Chemistry If8765 Compatibility with Devices
 - Instructional Fair Inc Answers Chemistry If8765 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Instructional Fair Inc Answers Chemistry If8765
 - Highlighting and Note-Taking Instructional Fair Inc Answers Chemistry If8765
 - Interactive Elements Instructional Fair Inc Answers Chemistry If8765
8. Staying Engaged with Instructional Fair Inc Answers Chemistry If8765
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Instructional Fair Inc Answers Chemistry If8765
9. Balancing eBooks and Physical Books Instructional Fair Inc Answers Chemistry If8765
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Instructional Fair Inc Answers Chemistry If8765
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Instructional Fair Inc Answers Chemistry If8765
 - Setting Reading Goals Instructional Fair Inc Answers Chemistry If8765
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Instructional Fair Inc Answers Chemistry If8765
 - Fact-Checking eBook Content of Instructional Fair Inc Answers Chemistry If8765
 - 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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