



## Density Calculations Worksheet I

$$\text{density} = \frac{\text{mass}}{\text{volume}}$$

### UNITS OF DENSITY

solids (g/cm<sup>3</sup>)

liquids (g/mL)

1. Find the unknown quantity:

a)  $d = 3 \text{ g/mL}$   
 $V = 100 \text{ mL}$   
 $M = ?$   
 $m = d \times v$   
 $= (3 \text{ g/mL})(100 \text{ mL})$   
 $= 3 \times 10^2 \text{ g}$

b)  $d = ?$   
 $V = 950 \text{ mL}$   
 $M = 95 \text{ g}$   
 $d = \frac{m}{V}$   
 $= \frac{95 \text{ g}}{950 \text{ mL}} = 0.10 \text{ g/mL}$

c)  $d = 0.5 \text{ g/cm}^3$   
 $V = ?$   
 $M = 20 \text{ g}$   
 $V = \frac{m}{d}$   
 $= \frac{20 \text{ g}}{0.5 \text{ g/cm}^3} = 4 \times 10^1 \text{ cm}^3$

2. Find the unknown quantity (CONVERT FIRST to g or mL)

a)  $d = 24 \text{ g/mL}$   
 $V = 1.2 \text{ L} = \underline{1200} \text{ mL}$   
 $M = ?$   
 $m = d \times v$   
 $= (24 \text{ g/mL})(1200 \text{ mL})$   
 $= 2.9 \times 10^4 \text{ g}$

b)  $d = ?$   
 $V = 100 \text{ mL}$   
 $M = 1.5 \text{ kg} = \underline{1500} \text{ g}$   
 $d = \frac{m}{V}$   
 $= \frac{1500 \text{ g}}{100 \text{ mL}} = 15.0 \text{ g/mL}$

c)  $d = ?$   
 $V = 0.52 \text{ L} = \underline{520} \text{ mL}$   
 $M = 500 \text{ mg} = \underline{0.500} \text{ g}$   
 $d = \frac{m}{V}$   
 $= \frac{0.500 \text{ g}}{520 \text{ mL}} = 9.62 \times 10^{-4} \text{ g/mL}$

### WORD PROBLEMS

1. A block of aluminum occupies a volume of 15.0 mL and weighs 40.5 g. What is its density?

$V = 15.0 \text{ mL}$   
 $m = 40.5 \text{ g}$   
 $d = ?$   
 $d = \frac{m}{V}$   
 $= \frac{40.5 \text{ g}}{15.0 \text{ mL}}$

$d = 2.70 \text{ g/mL}$

2. Mercury metal is poured into a graduated cylinder that holds exactly 22.5 mL. The mercury used to fill the cylinder weighs 306.0 g. From this information, calculate the density of mercury.

$V = 22.5 \text{ mL}$   
 $m = 306.0 \text{ g}$   
 $d = ?$

$d = \frac{m}{V} = \frac{306.0 \text{ g}}{22.5 \text{ mL}} = 13.6 \text{ g/mL}$

# M Elkhatib Calculations Worksheet Answers

**Mike Jess**



## **M Elkhatib Calculations Worksheet Answers:**

This book delves into M Elkhatib Calculations Worksheet Answers. M Elkhatib Calculations Worksheet Answers is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into M Elkhatib Calculations Worksheet Answers, encompassing both the fundamentals and more intricate discussions.

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    - Chapter 1: Introduction to M Elkhatib Calculations Worksheet Answers
    - Chapter 2: Essential Elements of M Elkhatib Calculations Worksheet Answers
    - Chapter 3: M Elkhatib Calculations Worksheet Answers in Everyday Life
    - Chapter 4: M Elkhatib Calculations Worksheet Answers in Specific Contexts
    - Chapter 5: Conclusion
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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of M Elkhatib Calculations Worksheet Answers.

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