

## Unit 0 Study Guide

### The Step of the Scientific Method

- Be able to name and identify the steps of the scientific method in a given scenario.

### Determining Variables

- Be able to identify the independent, dependent and control variables in an experiment.

### Accuracy and Precision

- Given a data table, be able to identify which trials are accurate, precise, both or neither.

### Metric Conversions

- |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|
| 1. 4m = <u>4000</u> mm   | 4. 97dm = <u>9700</u> mm | 7. 4.3km = <u>4300</u> m |
| 2. 49cm = <u>0.49</u> m  | 5. 25L = <u>25000</u> mL | 8. 5mm = <u>0.5</u> cm   |
| 3. 16kg = <u>16000</u> g | 6. 437dg = <u>43.7</u> g | 9. 1.6L = <u>1600</u> mL |

Dimensional Analysis: Complete the following conversions using the steps of dimensional analysis

1. 0.85 qt = 801.89 mL

$$\frac{0.85 \text{ qt}}{1} \left| \frac{1 \text{ L}}{1.05667 \text{ qt}} \right| \left| \frac{1000 \text{ mL}}{1 \text{ L}} \right| = \frac{850}{1.05667} = \boxed{801.89 \text{ mL}}$$

3. 1.2 kg = \_\_\_\_\_ oz

$$\frac{1.2 \text{ kg}}{1} \left| \frac{2.2046 \text{ lb}}{1 \text{ kg}} \right| \left| \frac{16 \text{ oz}}{1 \text{ lb}} \right| = \boxed{42.24 \text{ oz}}$$

2. 61 cm = \_\_\_\_\_ ft

$$\frac{61 \text{ cm}}{1} \left| \frac{1 \text{ in}}{2.54 \text{ cm}} \right| \left| \frac{1 \text{ ft}}{12 \text{ in}} \right| = \frac{61}{30.48} = \boxed{2 \text{ ft}}$$

4. 2 L = \_\_\_\_\_ pt

$$\frac{2 \text{ L}}{1} \left| \frac{1.05667 \text{ qt}}{1 \text{ L}} \right| \left| \frac{2 \text{ pt}}{1 \text{ qt}} \right| = \boxed{4.24 \text{ pt}}$$

5. The distance from a Port Huron to the Indiana State line is approximately 271 miles (via I-94). Express this distance in kilometers.

$$\frac{271 \text{ mi}}{1} \left| \frac{1.60934 \text{ km}}{1 \text{ mi}} \right| = 436.31 \text{ km}$$

6. A baby born in the US weighs 3.295 kg according to the scale in the birthing room. Convert this to pounds and ounces so you can tell the grandparents how much the baby weighed.

$$\frac{3.295 \text{ kg}}{1} \left| \frac{2.2046 \text{ lb}}{1 \text{ kg}} \right| = 7.2516 \text{ lb} \quad \frac{0.2516 \text{ lb}}{1} \left| \frac{16 \text{ oz}}{1 \text{ lb}} \right| = 4.026 \text{ oz} \quad \boxed{7 \text{ lb } 4.026 \text{ oz}}$$

7. A child requires a 5 ml dose of medicine each day. How many days would a gallon of this medicine last?

$$\frac{1 \text{ gal}}{1} \left| \frac{3.785 \text{ L}}{1 \text{ gal}} \right| \left| \frac{1000 \text{ mL}}{1 \text{ L}} \right| = 3785 \text{ mL} \quad \frac{3785 \text{ mL}}{5 \text{ mL/day}} = 757 \text{ days}$$

### Scientific Notation

Convert the following numbers to "Standard Notation" (ie,  $10^3 = 1000$ ):

1.  $2 \times 10^3 = 2000$

2.  $2.331 \times 10^5 = 233,100$

3.  $9.51 \times 10^{12} = 9,510,000,000,000$

# Physical Science Answers 21

**Eric Rice**



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