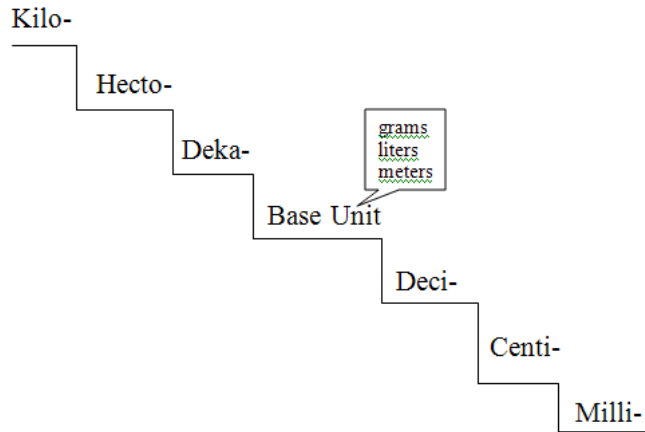


Name: _____

Period: 1 2 3 4 5 6

Review Chapters 1 and 2

Part A: Measurement



Use the chart to answer the following questions.

1. Convert the following values:

a. 12.3 mL = _____ L

d. 0.005 L = _____ mL

b. 45,000 g = _____ kg

e. 1.2 kg = _____ g

c. 1250 cm = _____ m

f. 0.023 m = _____ cm

Part B: Conversions

Perform the following conversions. **SHOW YOUR WORK!**

2. Calculate the number of seconds you have lived.

3. The distance from a Port Huron to the Indiana State line is approximately 271 miles (via I-94). Express this distance in kilometers. (1 mi = 1.61 km)

4. A clerk can sort 375 sheets per hour. If there are 225 sheets in an inch, how long will it take her to file 125 inches of loose sheets.

Part C: Significant Figures

Answer the following questions involving significant figures.

5. Determine the number of significant figures in the following measurements:

a. 1234 _____

d. 780. _____

b. 0.023 _____

e. 1000 _____

c. 9010.01 _____

6. Perform the following calculations and put your answer in the correct number of significant figures.

a. $85.26 \text{ g} + 4.7 \text{ g} = \underline{\hspace{2cm}}$

d. $5,108 \text{ m} \times 4.2107 \text{ m} = \underline{\hspace{2cm}}$

b. $1.07 \text{ km} + 0.608 \text{ km} = \underline{\hspace{2cm}}$

e. $1.67 \text{ km} / 8.5 \text{ km} = \underline{\hspace{2cm}}$

c. $186.4 \text{ kg} - 57.83 \text{ kg} = \underline{\hspace{2cm}}$

f. $2.6 \text{ cm} \times 9.4 \text{ cm} = \underline{\hspace{2cm}}$

Part D: Scientific Process

Answer the following questions involving the scientific process.

7. Define the following terms:

a. hypothesis:

b. theory:

c. law:

d. independent variable:

e. dependent variable:

f. control:

8. Why do you only change 1 variable at a time in a scientific experiment?

9. Can theories change? Explain.

BACK →

10. Identify the independent variable, dependent variable and control in the following experiment:

Workers at a company were assigned to one of two conditions: One group completed a stress management training program; another group of workers did not participate in the training. The number of sick days taken by these workers was examined for the two subsequent months.

independent variable: _____

dependent variable: _____

control: _____