

Name _____ Hour _____

Measurement Conversion Worksheet

For the following questions, decide whether you would measure the following distances in kilometers, meters, or centimeters. Choose and write your answer. If more than one answer could be correct, write both!

- 1) The distance across the room. _____
- 2) The length of a piece of paper. _____
- 3) The distance from DeLaSalle to the Target Center. _____
- 4) The distance of the across the gym floor. _____
- 5) The length of your desk. _____
- 6) The distance across the Hennepin Ave. bridge. _____

For the following questions, convert one metric unit into another metric unit. Make sure you show your work and you place a box around your answer with correct units.

- 1) How many grams are there in 2.5 kilogram?

$$\frac{2.5 \cancel{\text{kg}}}{1} \times \frac{1000 \text{ g}}{1 \cancel{\text{kg}}} = 2500 \text{ g}$$

This is a conversion factor, notice the top and bottom are equal!

- 2) How many centimeters are there in 2.5 meters?
- 3) How many meters are there in 250 millimeters?
- 4) How many kilograms are there in 355 grams?

Answer the following problems using the same procedures as above. When needed, the conversion factor for metric to English units is provided.

- 1) The Olympic record for weightlifting is 472.5 kg.
 - a) How many grams is this?

b) How many pounds is this? (1 kilogram = 2.2 pounds)

- 2) Sergey Bubka currently holds the world record for the pole vault with a jump of 6.14 meters.
 - a) How many millimeters is this?

b) How many feet is this? (1 meter = 3.3 feet)

3) Usain Bolt, the Jamaican gold medallist in the 100 m dash, recently set a new world record time of 9.58 seconds.

a) How far did he run in feet?

Extra Credit: Could he out run a car going 25 miles per hour? (5280 feet = 1 mile) (Must show work for credit)

Reading Notes – Chapter 1: Section 1 – The Methods of Science

A. _____ studies natural patterns.

1. Science is classified into three main categories: _____ science, _____ science, and _____ science.
2. Science explains the natural world; explanations can _____ over time.

B. _____ - organized set of investigation procedures.

1. _____ a problem
2. _____ information
3. Form a _____ or educated guess based on knowledge and observation.
4. An experiment with variables is a common way to _____ a hypothesis
 - a. A _____ variable changes value as other variables change
 - b. An _____ variable is changed to determine how it will affect the dependent variable.
 - c. A variable that does not change with other variables change is a _____.
 - d. A _____ is the standard to which test results can be compared.
5. _____ data from an experiment or investigation
6. For a _____ based on the data
7. Reduce _____ by keeping accurate records using measurable data.