

Name _____

Period _____

Unit Conversions Worksheet 1

Use unit analysis to solve the following problems. (Conversion factors are available on the "Measurements and Units" handout).

1. Convert 83 cm into meters.

7. Convert 2.0 miles to inches.

2. Convert 459 L into milliliters.

8. Convert \$25 to dimes.

9. Convert 10 weeks into minutes.

4. Convert 12 yards to feet.

10. Convert 0.00378 kg into grams.

5. Convert 10 hours to seconds.

11. Convert 12.1 mm into centimeters.

12. Convert 6.8 gallons into milliliters.

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13. A chemical costs \$5.25 per pound. What would be the cost of 10.0 kg of the chemical?

14. Arrange the following from shortest to longest:

- a. a 1.21 m chain
- b. a 75 inch rope
- c. a 3 ft-5in rattlesnake
- d. a yardstick

15. Write down your height (in feet and inches): _____

- a. Determine your height in inches.

- b. Determine your height in centimeters.

- c. Determine your height in yards.

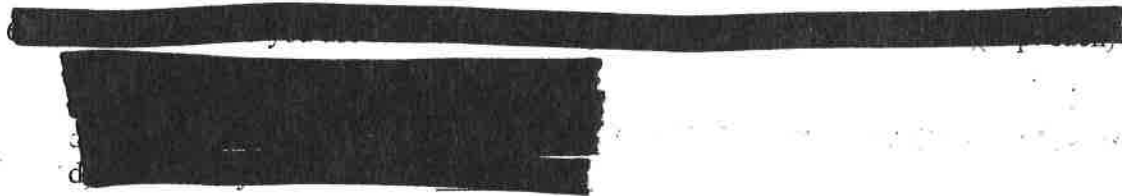


Name: _____
Mr. Willis
Conceptual Physics: _____
Date: _____

Unit I
Introduction to Conceptual Physics
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2. One cereal bar has a mass of 37 g. What is the mass of 6 cereal bars? Is that more than or less than 1 kg? Explain your answer. (2 pts)
3. Wanda needs to move 110 kg of rocks. She can carry 10 hg each trip. How many trips must she make? Explain your answer. (2 pts)
4. Dr. O is playing in her garden again She needs 1 kg of potting soil for her plants. She has 750 g. How much more does she need? Explain your answer. (2pts)
5. Weather satellites orbit Earth at an altitude of 1,400,000 meters. What is this altitude in kilometers? (2 pts)



7. Circle the more reasonable measure: (.5 pt each)
 - a) length of an ant 5mm or 5cm
 - b) length of an automobile 5 m or 50 m
 - c) distance from NY to LA 450 km or 4,500 km
 - d) height of a dining table 75 mm or 75 cm
8. Will a tablecloth that is 155 cm long cover a table that is 1.6 m long? Explain your answer (2 pts)
9. A dollar bill is 15.6 cm long. If 200 dollar bills were laid end to end, how many meters long would the line be? (2 pts)
10. The ceiling in Jan's living room is 2.5 m high. She has a hanging lamp that hangs down 41 cm. Her husband is exactly 2 m tall. Will he hit his head on the hanging lamp? Why or why not? (2 pts)

