

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## The Metric System

1. Fill in each prefix for the metric system. (Hint: King Henry Died (base!) Drinking Chocolate Milk!)

1000 \_\_\_\_\_

100 \_\_\_\_\_

10 \_\_\_\_\_

.1 ( $\frac{1}{10}$ ) \_\_\_\_\_

.01 ( $\frac{1}{100}$ ) \_\_\_\_\_

.001 ( $\frac{1}{1000}$ ) \_\_\_\_\_

2. What metric unit is used to measure *distance*? \_\_\_\_\_
3. What metric unit is used to measure *mass*? \_\_\_\_\_
4. What metric unit is used to measure *volume*? \_\_\_\_\_
5. How many *meters* are in a *kilometer*? \_\_\_\_\_
6. How many *milligrams* are in a *gram*? \_\_\_\_\_
7. How many *liters* are in a *hectoliter*? \_\_\_\_\_
8. 1 deciliter = \_\_\_\_\_ milliliters
9. 1 kilometer = \_\_\_\_\_ centimeters
10. 3 hectograms = \_\_\_\_\_ decigrams

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11. Kerri is making a fruit smoothie that requires 500 milliliters of orange juice. She has 1 liter of orange juice in the fridge. Does she have enough orange juice for the recipe? Explain.
  
  
  
  
  
  
  
  
  
  
12. Mark can run 10 kilometers in one hour. How many meters can he run in one hour?
  
  
  
  
  
  
  
  
  
  
13. A doctor prescribed Carl 500 milligrams of medicine for his ear infection. How many grams of medicine is that?
  
  
  
  
  
  
  
  
  
  
14. Donna can lift 25 kilograms. How many grams can she lift?
  
  
  
  
  
  
  
  
  
  
15. **Challenge:** Jasmine needs 300 centimeters of fabric to make her new dress. The fabric costs \$5 for each meter. How much will her fabric cost to make the dress?