

Name \_\_\_\_\_

## ***If You Give a Mouse a Cookie***

By Laura Numeroff

### **Part I: Review of Customary Units**

- 1) List the information needed to know, in regards to measuring *length* in customary units. (Remember that there are 5!)
  
  
  
  
  
  
- 2) List the information needed to know, in regards to measuring *mass* in customary units. (Remember that there are 2!)
  
  
  
  
  
  
- 3) List the information needed to know, in regards to measuring *volume* in customary units. (Draw a picture!)
  
  
  
  
  
  
- 4) If you are converting from a larger unit (yards) to a smaller unit (inches), will the number get larger or smaller? Would you multiply or divide to convert?
  
  
  
  
  
  
- 5) If you are converting from a smaller unit (pints) to a larger unit (gallons), will the number get larger or smaller? Would you multiply or divide to convert?

## **Part II: Metric Conversion Review and Reasoning**

- 6) What is the metric system saying? What does it mean?
  
- 7) If you are converting from a larger unit (kilo) to a smaller unit (milli), will the number get larger or smaller? Would you move the decimal to the left or to the right?
  
- 8) If you are converting from a smaller unit (centi) to a larger unit (deka), will the number get larger or smaller? Would you move the decimal to the left or to the right?
  
- 9) What is the metric unit used when measuring *length*?
  
- 10) What is the metric unit used when measuring *mass*?
  
- 11) What is the metric unit used when measuring *volume*?

**Part III: Converting Using the Metric System** – Many events happened in the story. Use what you already know and the steps provided below to answer the following conversion questions.

Step 1 – Use the metric system saying to write down the metric scale

Step 2 – Decide where you are and where you need to go and count your jumps

Step 3 – Move the decimal that many times, in the same direction

### **Length**

- 12) The mouse asked for a straw to drink his milk. How long is the straw in *millimeters*, if it measured 20 cm in length?
  
- 13) While in the bathroom, the mouse noticed that he needed a trim. If the mouse trimmed off 2.67 mm of hair, then how many *meters* of hair did he cut?
  
- 14) The crayon that the mouse used to draw a picture was 0.000025 km long. How long was the crayon in *meters*?

**Length (continued)**

15) The mouse drew a picture of his family that was 0.0056 hm long. How long was the picture in *centimeters*?

**Mass**

16) The mouse asked for a napkin to wipe his mouth when he finished his milk. The napkin weighed 3 grams. How many *milligrams* did the napkin weigh?

17) The refrigerator that the mouse's picture was taped to weighs 110 kg. How many *dekagrams* does the refrigerator weigh?

18) If the cookie that the mouse ate weighs 73 dg, then how many *grams* does the cookie weigh?

**Volume**

19) In the story, a glass of milk was poured by the little boy. The mouse drank 0.0025 liters of milk. How many *milliliters* of milk did the mouse drink?

20) The mop water used to wash the floors was in a 2 liter bucket. How many *hectoliters* of water would fit in the bucket?

*To be continued.....*

