



## Chem Skills Worksheet #6: More Metric

1. How many grams in a kilogram? 1000 =  $10^3$
2. How many milligrams is a gram? \_\_\_\_\_
3. How many milligrams in a kilogram? 10,000 =  $10^6$
4. Convert 29 grams to milligrams. \_\_\_\_\_
5. What part of a meter is a centimeter?  $1/100 = .01$
6. How many millimeters in 1 centimeter? \_\_\_\_\_
7. What is the prefix that means divide by 1000? milli
8. What is the SI unit used to measure length? \_\_\_\_\_
9. What is the SI unit used to measure volume? Liter
10. What is the SI unit used to measure mass? \_\_\_\_\_
11. How many milligrams in 24 centigrams? 240 mg
12. Express 4 kilograms in grams. \_\_\_\_\_
13. Express 4 kilograms in milligrams. 4,000,000 mg
14. 650 millimeters is equal to what part of a meter? \_\_\_\_\_
15. Convert 56 grams to milligrams. 56,000 mg
16. How many centimeters in a kilometer? \_\_\_\_\_
17. What is the mass of one milliliter of water? 1g
18. What is the mass of one liter of water? \_\_\_\_\_
19. There is a jar on the cabinet by the refrigerator. If Savannah pours two hundred eight milliliters of water in the jar six times to fill it, how many liters of water does it take to fill the jar?  $208 \text{ mL} \times 6 \times 1\text{L}/1000\text{mL} = 1.25 \text{ L}$ 

1.25 L
20. Eric's father asked an engineer to survey the field behind their house. He wanted to plant some apple and pear trees there. According to the survey, the field is thirty-eight meters long and seventeen meters wide. What is the perimeter of the field?
21. Taylor saw a raccoon in her backyard last weekend. She put out some food and a bowl with three hundred sixty milliliters of water in it. The raccoon ate all the food and drank three-fifths of the water. How much water did the raccoon drink?

216 mL