Names:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Kool-Aid Problem

**Problem:**

How much koolaid, sugar, and water are you going to need to provide drinks for a family reunion with you and your partners’ families? Your answer needs to be in:

**grams for koolaid, liters for water and kilograms for sugar**

Number of people Helpful Conversion Factors

3.78 L= 1 gallon

\_\_\_\_\_\_\_\_\_\_\_\_ 1 cup sugar = 100 gram

4 quarts = 1 gallon

Assume that each person gets two servings. \_\_\_\_\_# of people = \_\_\_\_\_\_# of servings

In addition, your family has a sweet tooth and wants their koolaid as sweet as you can make it. **(That means the solution is saturated and you need to double the sugar directions)**

**Directions:**

Use your problem solving steps, record all your steps, data and calculations. Use charts and/or graphs as needed to organize your work. **I will not accept just an answer. I want to see all your work!!!!**

**Scientific Method**

1. What is the problem?

2. What do you know and what information is given in the problem? Data

3. Hypothesis:

4. Test and Record Data: Work out the math, plug numbers into calculator, formulas and chug on through the problem. Show your work here.

5. Conclusion: Your answer and does it make sense? Record answers below and double check to make sure they make sense.

\_\_\_\_\_\_\_ grams for koolaid \_\_\_\_\_\_\_ liters for water \_\_\_\_\_\_\_ kilograms for sugar