Name_____Date_____Class_____

AMI DAY 2: SCIENCE- Hughes

INQUIRY SKILL FOCUS Practice

Directions: Review the information about interpreting data, then answer the questions on the back.

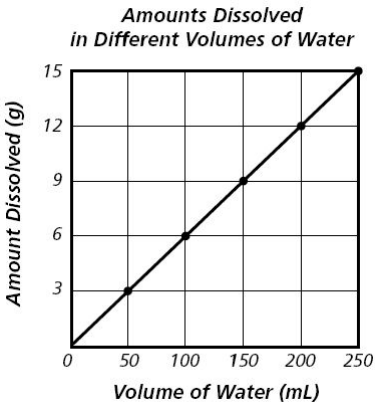
Interpret Data Reading Information

This line graph would help you to interpret the data from your experiment. Here are some of the inferences you could make using the graphs.

Example 1: A greater mass of the substance will dissolve in a greater volume of water.

Example 2: For every 50 mL increase in the amount of water, the mass of the substance dissolved increases by3g.

Example 3: The mass of this substance dissolved in300 mL of water would be 18 g.



To determine if your inferences are logical, think about what you have learned about solutions in science class. You know that the amount of a substance that will dissolve depends on several factors. You know that a certain amount of a substance will dissolve in a certain volume of water. It makes sense to you that the greater the volume of water, the greater the mass of substance that you can dissolve in it. You and your lab partner decide that your inferences are logical.

TIPS FOR INTERPRETING DATA

- During investigations, use a data table or chart to collect and organize your data.
- Whenever possible, make a graph using the data.
- Identify trends, or patterns, in the data.
- Use the data to make inferences. Do your inferences make sense compared with what you already know about a topic? If not, review your work.

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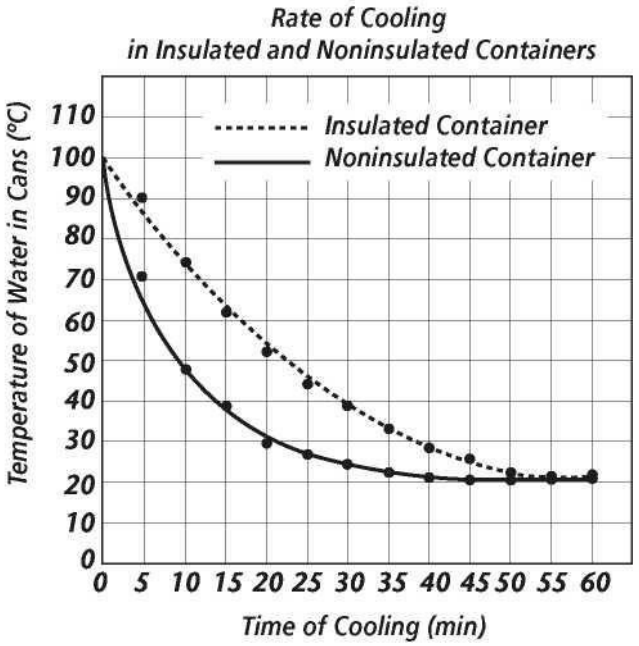
Interpret Data



1. Write a sentence that summarizes the data. Use the title of the graph and the axis labels to help you write your sentence.

_____

_____

2. Name three times at which the water in the two containers have the same temperature. _____
3. Name one time at which the temperatures of the water in the two cans differed by more than 20°C.

   _____
4. What do you expect the temperatures of the water in the containers would be at 65 minutes? _____
5. Which container was more effective?

   _____
6. Why do you think it was more effective?

_____

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