

Name: _____

Period: _____

Date: _____

Unit 1 Test Review

Scientific Method and Inquiry:

1. Explain what an experiment is: _____

2. What are the steps of the scientific method? _____

3. What is the problem or question? _____

4. Which step requires you to use your senses? _____

5. Define hypothesis: _____

6. What is data? _____

7. What are the two types of data and explain the difference between them: _____

8. Explain what a variable is: _____

9. Explain the two types of variables:

Independent variable: _____

Dependent variable: _____

10. Read the following scenario and come up with a question and a testable hypothesis:

Ali's favorite food is microwave popcorn. She loves microwave popcorn so much that she can't stand to waste the unpopped kernels in the bottom of the bag. The next time Ali goes to the grocery store, she buys all of the brands of microwave popcorn that the store has.

Possible question: _____

Possible Hypothesis: _____

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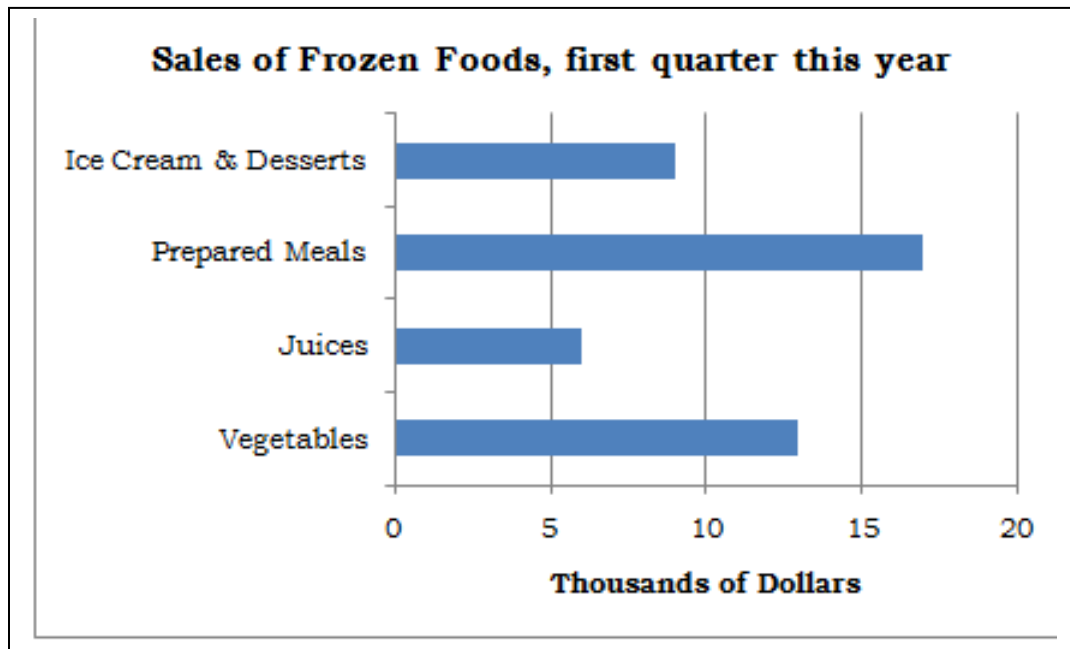
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Graphs:

1. Why are graphs used to show data results?

2. In laboratory experiments, you will usually be controlling one variable and seeing how it affects another variable. A line graph can be used to show _____. The variables being compared go on two _____ of the graph.

3. What is a possible conclusion you could make from the graph below?



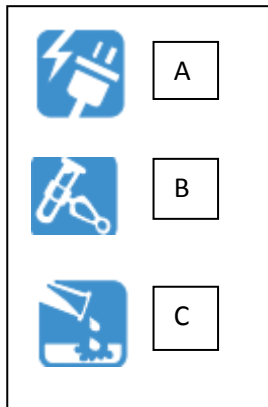
- A. Ice cream is not as loved as much as those frozen prepared meals
- B. The purchases of juice is lower by about half of the money spent on vegetables
- C. Vegetables are more expensive than ice cream and desserts

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Lab Safety:

Match the symbols to their description:



_____ Corrosive Chemical

_____ Electric Shock

_____ Heating

List 4 safety rules and why they are important:

1. _____

2. _____

3. _____

4. _____

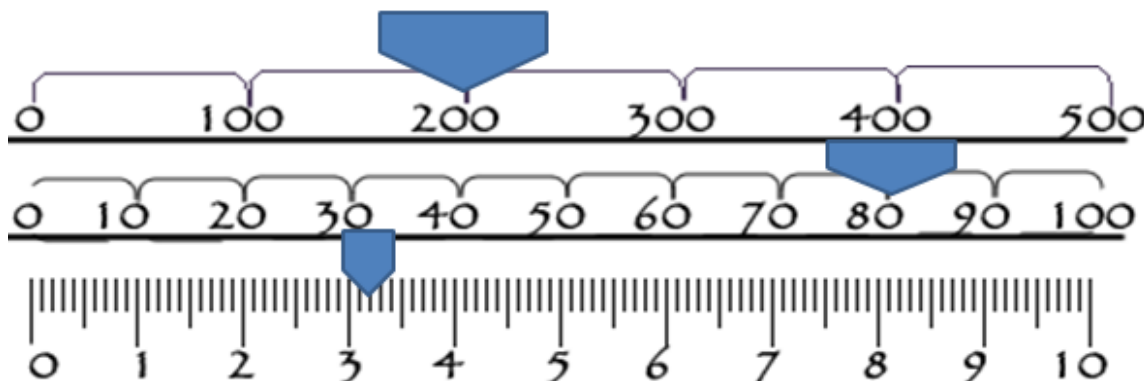
Tools:

1. Mass is defined as _____.
2. Mass is measured with a triple-beam balance in units of _____.

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3. What is the mass of the object using the triple beam balance image below? _____

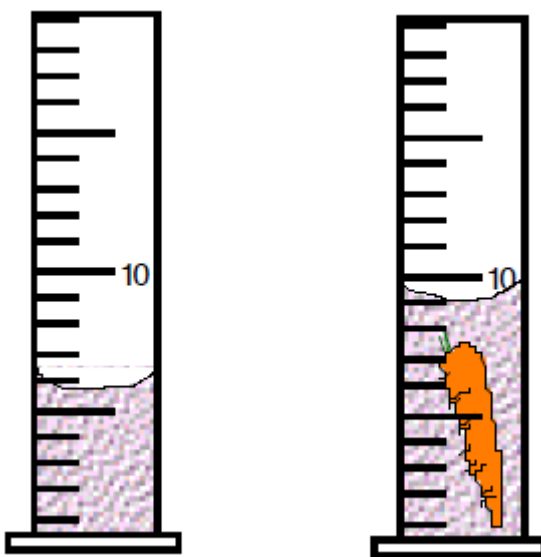


4. Volume is defined as _____.

5. Volume can be measured with a _____ if the object is regularly shaped, like a cube.

But volume can also be measured with a _____ using water displacement if the object is irregular in shape.

6. What is formula for volume when using water displacement? _____



7. What is the volume of the object above? _____

8. What is the volume of this cube? _____

