

# Section Review

## Organizing Your Data

### UNDERSTANDING CONCEPTS

- 1. Demonstrating** Why is it important to organize a data table before doing an experiment?

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- 2. Identifying** Alfonso is conducting an experiment to determine whether temperature affects how fast earthworms move. Identify the dependent variable and the independent variable.

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### INTERPRETING GRAPHICS

Use the table below to answer the next two questions.

Time (min)	Temperature (°C)
0	25
3	28
5	31

- 3. Applying** While studying how long it takes milk to warm, Marissa makes the observations shown in the table. Use her data to create a graph.

- 4. Describing** Does your graph show an inverse linear relationship or a direct linear relationship? Explain your answer.

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**Section Review** *continued*

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**CRITICAL THINKING**

**5. Analyzing Processes** Why does an investigator change the value of a variable parameter during an investigation?

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**6. Identifying Relationships** As computer technology becomes faster, how does the ability of scientists to collect and organize data change?

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**CHALLENGE**

**7. Interpreting Statistics** After an experiment, Monica creates a graph that shows a direct linear relationship between the size of a fish and the amount of oxygen the fish uses. Describe this trend in terms of the amount of oxygen that a fish would use as it grows from being very small to very large.

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