

Skills Worksheet

# Directed Reading B

## Section: Organizing Your Data (pp. 50–55)

### CREATING A DATA TABLE

- \_\_\_\_\_ 1. Which of the following can be the first step to take in organizing data?
- a. Choose a topic.
  - b. Gather information.
  - c. Create a data table.
  - d. Analyze data.
- \_\_\_\_\_ 2. Which of the following should you do before an experiment starts?
- a. Determine what information is going to be gathered.
  - b. Draw conclusions about the information before it is gathered.
  - c. Miss information that might be important.
  - d. Analyze the information after it is gathered.
3. A factor that is deliberately changed in an experiment is called a(n)  
\_\_\_\_\_.
4. Where do you find the independent variable in a data table?  
\_\_\_\_\_
5. The factor that changes as a result of manipulation and is measured is called  
a(n) \_\_\_\_\_.
6. Where do you find the dependent variable in a data table?  
\_\_\_\_\_

### Variable and Controlled Parameters

7. What is the difference between controlled parameters and variable parameters?  
\_\_\_\_\_  
\_\_\_\_\_

### CREATING A GRAPH

8. Graphs make it easy to do what two things?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Directed Reading B** *continued*

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**Match the correct description with the correct term. Write the letter in the space provided.**

- |   |                                |
|---|--------------------------------|
| _____ <b>9.</b> is one of two or more reference lines that mark the borders of a graph                                      | <b>a.</b> range                |
| _____ <b>10.</b> usually represented by the $x$ -axis in a data table   | <b>b.</b> dependent variable   |
| _____ <b>11.</b> usually represented by the $y$ -axis in a data table   | <b>c.</b> axis                 |
| _____ <b>12.</b> found by subtracting the smallest value of a variable from the largest value of the same variable          | <b>d.</b> independent variable |
| _____ <b>13.</b> is the size used for each box or grid mark on a graph  | <b>e.</b> scale                |
| _____ <b>14.</b> plotted by putting a dot on the graph for a pair of data in the table                                      | <b>f.</b> line of best fit     |
| _____ <b>15.</b> shows how data differ from the pattern; a smooth line drawn to include some but not all of the data points | <b>g.</b> data point           |
- 16.** The last step when creating a graph is giving the graph a(n)  
\_\_\_\_\_.

**17.** What two things do scientists often include in the titles of their graphs?

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