Another Example

Line graphs often show trends in data. A trend is a pattern in data showing an increase or decrease.

In the graph at the right, the trend is that the height of the plant increased over time. You can use the trend to make a prediction that the plant’s height will continue to increase.

Guided Practice

Do You Understand?

1. Reasoning About how tall was the plant in the second week? Explain how you can tell from the graph.

2. Generalize How tall do you think the plant might be in Week 11? Explain.

Do You Know How?

3. Model with Math The table shows the temperatures Jorge measured over several hours. Draw a line graph of the data in the table and describe the trend.

<table>
<thead>
<tr>
<th>Hour</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature (°F)</td>
<td>11</td>
<td>9</td>
<td>6</td>
<td>5</td>
</tr>
</tbody>
</table>

Independent Practice

4. Reasoning What is the trend in the data?

5. Generalize If the hikers continue hiking one more day, what might be the total miles hiked at the end of Day 5? Explain.

6. How long did it take the hikers to hike 7 miles?
7. Model with Math  Complete the line graph of the data.

8. Reasoning  What is the trend in the data?

9. Higher Order Thinking  Between which seconds did Sami travel the farthest? Explain how you can tell from the graph.

10. Jasper is competing in a 20-kilometer bike race. He just passed the 17,000 meter marker. How many meters does Jasper have left to bike?

11. A display at a grocery store has 120 pieces of fruit. Apples make up $\frac{3}{4}$ of the display, and oranges make up $\frac{2}{5}$ of the display. If $\frac{1}{2}$ of the apples are green, how many green apples are there?

12. Roger recorded the weight of his guinea pig Buttercup over several months. The table shows the weights. Use the data in the table to complete the graph on the right. Then describe the trend in the data.