Lesson Objectives
Display and analyze data in bar graphs

Vocabulary
bar graph (p. 308)
double-bar graph (p. 309)

Additional Examples

Example 1
Use the bar graph to answer each question.

A. Which biome in the graph has the lowest average summer temperature?

Find the _______ bar.

The _______ has the _______ average summer temperature.

B. Which biomes in the graph have an average summer temperature of 30°C or greater?

Find the bar or bars whose heights measure _______ or more than _______.

The _______ and the _______ have average summer temperatures of 30°C or greater.
Example 2

Use the given data to make a bar graph.

Step 1: Find an appropriate __________ and __________. The scale must include all of the data __________. The interval separates the scale into __________ parts.

Step 2: Use the __________ to determine the lengths of the bars. Draw bars of equal __________. The bars cannot touch.

Step 3: Title the graph and label the __________.

Example 3

PROBLEM SOLVING APPLICATION

Make a double-bar graph to compare the data in the table.

1. Understand the Problem
   You are asked to use a graph to compare the data given in the table. You will need to use all of the information given.

2. Make a Plan
   You can make a __________ graph to display the two sets of data.
3. Solve

Determine appropriate scale for both sets of data. Use the tick marks to determine the lengths of the bars. Draw bars of equal length. Bars should be in Art. Use a different color for boy memberships and girl memberships. Title the graph and label both axes. Include a key to show what each bar represents.

4. Look Back

You could make two separate graphs, one of boy memberships and one of girl memberships. However, it is easier to compare the two data sets when they are on the same graph.

Try This

1. Use the bar graph to answer the question.

Which biomes in the graph have an average summer temperature of 25°C or greater?

2. Use the given data to make a bar graph.

<table>
<thead>
<tr>
<th>Tickets Sold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade 6</td>
</tr>
<tr>
<td>310</td>
</tr>
</tbody>
</table>
3. Problem Solving Application

Make a double-bar graph to compare the data in the table.

<table>
<thead>
<tr>
<th>Club Memberships</th>
</tr>
</thead>
<tbody>
<tr>
<td>Club</td>
</tr>
<tr>
<td>Boys</td>
</tr>
<tr>
<td>Girls</td>
</tr>
</tbody>
</table>

1. Understand the Problem
You are asked to use a graph to compare the data given in the table. You will need to use all of the information given.

2. Make a Plan
You can make a [ ] graph to display the two sets of data.

3. Solve

4. Look Back
You could make two separate graphs, one of boy memberships and one of girl memberships. However, it is easier to compare the two data sets when they are on the same graph.