Algebra 1 Data Update

Algebra 1
Data Updates
Chapter 11

Lesson 11.1, page 648, Exercise 48, Multi-Step Problem

<table>
<thead>
<tr>
<th>Total population (in thousands)</th>
<th>Number of people out of 100 with education level</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Less than high school</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>175,230</td>
<td>15.9</td>
</tr>
</tbody>
</table>

**Answers:**

a. about 66 people; about 51 people

b. \( \frac{25.6}{100} = \frac{x}{175,230} \); about 44,859 people

c. \( \frac{25.6}{100} = \frac{x}{20,000} \); about 5,120 people

d. *Sample answer:* Use the ratio \( \frac{7,581}{15,860} \) to find the percentage and compare the result (47.8%) to 25.6%, which represents the typical value.

Lesson 11.7, page 688, Focus on Applications

In 2000, Americans spent about 3.6 billion dollars on exercise equipment.