Problem-Solving Strategy:
Find a Pattern

1. Mr. Henry’s car now has 65,000 miles on it. Its estimated value is $1,200. At 75,000 miles, the estimated value drops to $1,100. At 85,000 miles, the estimated value drops to $1,000. If the pattern continues, what will the car’s estimated value be at 105,000 miles?

What is the question?

How can finding a pattern help you solve the problem?

Use the table to organize the data given in the problem.

<table>
<thead>
<tr>
<th>Mileage</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

What patterns do you notice in the table?

What is the solution?

How can you check your answer?

2. The Henry Company had profits of $2,010,000 the first year, $3,190,000 the second year, and $4,370,000 the third year. How much in profits would you expect the Henry Company to make in the fifth year?