Using Addition and Subtraction

Performance Task Objectives

- Estimate sums and differences of 3-digit to 6-digit numbers
- Add and subtract up to a 5-digit number

Sunshine State Standards

- MA.A.3.2.2
- MA.A.3.2.3
- MA.A.4.2.1

Materials

- Student recording sheet
- Paper and pencil

Student arrangement

- Individual

Task

Present the problem on the student Recording Sheet to your students.

Performance Criteria

- Does the student understand how to use estimation, addition, and subtraction in drawing conclusions about the lengths of the rivers?
- Do the student’s examples show a correct estimated sum and difference, and a correct exact sum and difference?
- Can the student explain how he or she found each sum or difference?
The table below shows the lengths of five of the longest rivers in North America. Use the table to complete the following 5 tasks.

<table>
<thead>
<tr>
<th>RIVER</th>
<th>LENGTH (km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arkansas</td>
<td>2,353</td>
</tr>
<tr>
<td>Mackenzie</td>
<td>4,250</td>
</tr>
<tr>
<td>Mississippi</td>
<td>3,774</td>
</tr>
<tr>
<td>Missouri</td>
<td>3,734</td>
</tr>
<tr>
<td>Rio Grande</td>
<td>3,065</td>
</tr>
</tbody>
</table>

1. What is an estimated sum of the lengths of the Arkansas and the Mississippi Rivers? **Show your work.**

2. What is the exact sum of the lengths of these two rivers? **Show your work.**

3. What is an estimated difference in the lengths of the Rio Grande and the Mackenzie Rivers? **Show your work.**

4. What is the exact difference in the lengths of these two rivers? **Show your work.**

5. Write an explanation of how you found the estimated sum or difference.