Preliminary Planning Sheet
Tables for a Party

Unit: Place Value (TEKS Covered in Unit: 3.2A, 3.2B, 3.2C, 3.2D)
Process Standards: 3.1A, 3.1B, 3.1E, 3.1G

Major Underlying Mathematical Concepts
- Round whole numbers to base-10
- Interpret remainders
- Division/Subtraction/Addition
- Number sense to 34

Possible Problem-Solving Strategies
- Model (manipulatives)
- Diagram/Key
- Table
- Number line

Possible Mathematical Vocabulary/Symbolic Representation
- Model
- Diagram/Key
- Table
- Number line
- Remainder
- Tens, ones
- Odd/Even
- Shape
- Pattern
- 4/10
- 100%
- Place value
- Per
- Estimation
- Circle, trapezoid, rectangle, square
- Equal/Unequal

Possible Solution(s)
Answer
4 tables

Table  Students Seated | Students Left Over
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
<td>24</td>
</tr>
<tr>
<td>2</td>
<td>10</td>
<td>14</td>
</tr>
<tr>
<td>3</td>
<td>10</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>—</td>
</tr>
</tbody>
</table>

Possible Connections
- Patterns: Table +1, Students +10.
- There are 6 extra seats at the 4th table.
- There are an even number of seats per table.
- 34 is 3 tens and 4 ones.
- Only 4/10 or 40% of table 4 is used.
- 100% of 3 tables are used.
- To solve the task you must round to 4 tables, even though 4 < 5.
- Relate to a similar task and state a math link.
- Solve more than one way to verify the answer.
- Show 10 students per table with other table shapes (square, triangle, circle).
- Show equal sets of students per sides of the tables.
- Show unequal sets of students per sides of the tables.