Core Content

**Cluster Title:** Reason with shapes and their attributes.

**Standard 2:** Partition a rectangle into rows and columns of same-size squares and count to find the total number of them.

**MASTERY Patterns of Reasoning:**

**Conceptual:**
- Students will understand that a row is horizontal.
- Students will understand that a column is vertical.
- Students will understand the meaning of partition.

**Procedural:**
- Students can identify and describe a row.
- Students can identify and describe a column.
- Students can determine the number of same-size squares in a rectangle.

**Representational:**
- Students can draw and partition a rectangle into rows and columns of same-size squares.

Supports for Teachers

**Critical Background Knowledge**

**Conceptual:**
- Students will understand the attributes of a rectangle.
- Students will understand that a rectangle can be divided into same-size squares.

**Procedural:**
- Students can identify a rectangle.
- Students can identify a square.
- Students can determine whether squares are the same size.
Representational:
Students can draw a rectangle and a square.

<table>
<thead>
<tr>
<th>Academic Vocabulary and Notation</th>
</tr>
</thead>
<tbody>
<tr>
<td>rectangle, row, column, same-size, partition, square</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Instructional Strategies Used</th>
<th>Resources Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use grid paper to create a rectangle when given the number of rows and columns.</td>
<td></td>
</tr>
<tr>
<td>Have students create a quilt square. Put the students' squares together in rows and columns to create a class quilt. Count the number of quilt squares in each row and column.</td>
<td></td>
</tr>
</tbody>
</table>
### Assessment Tasks Used

**Skill-Based Task:**
Partition the rectangle into 2 rows and 3 columns. Record the total number of squares.

Number of squares: ____________

**Problem Task:**
Aunt Sue is making a quilt. Her quilt is partitioned into 8 rows and 6 columns of squares. How many quilt squares will she need to make her quilt?

Number of squares: ____________