

## Separating Supplies

**Directions:** Help Mrs. Bowlin organize the supplies for her students who are going to make quilts out of paper squares. Use the information in her supply chart to help her organize the buttons, paper, markers, and glue.

Craft Supply	Total Number of Items
buttons	1,248
construction paper squares	2,040
markers	567
glue sticks	245

### Part 1

**Directions:** Write an equation and show how you solved each problem. In order to answer these questions, you may find it helpful to draw pictures on separate sheets of paper.

1. If Mrs. Bowlin separated the buttons evenly into 8 containers, how many buttons would be in each container?
  
  
  
  
  
  
  
  
  
  
2. Mrs. Bowlin had 4 colors of construction paper. If she had the same number of pieces of each color, how many pieces of each color did Mrs. Bowlin have?

3. Mrs. Bowlin organized the markers into sets. If there were 9 markers in each set, how many sets of markers did Mrs. Bowlin create?

4. Mrs. Bowlin organized the glue sticks into 7 bins. How many glue sticks were in each bin?

## Part 2

In art class, the students each made **rectangular** quilts using 24 paper squares. They then glued a button onto each square and decorated the squares with markers.

1. Create all of the possible arrays for modeling a rectangular quilt with the 24 paper squares. Write an equation to accompany each array. You can use the attached pre-made quilt squares by cutting and pasting them, or you can draw the arrays with your own designs on a separate sheet of paper.
2. Could the students use 24 paper squares to make quilts with 5 rows of paper squares? How do you know? Use an array to help explain your answer.

