EUREKA MATH™ TIPS FOR PARENTS

KEY CONCEPT OVERVIEW

During the next week, our math class will use square tiles and math drawings to **compose** and **decompose** rectangular arrays that show equal rows and equal columns. Students will use repeated addition to find the total number of squares. Students will also discover that rectangular arrays can be constructed in different ways. For example, 12 tiles can be arranged to show one column of 12, two rows of 6, three rows of 4, and so on.

You can expect to see homework that asks your child to do the following:

- Draw an array that has a given number of rows and columns.

- Add or remove rows or columns from arrays and write a repeated addition equation for the new array.

- Construct an array, break it into two parts, and write a number bond and repeated addition equation to match. (See Sample Problem.)

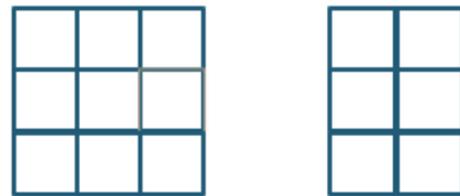- Shade an array to show a given number of rows and columns.

SAMPLE PROBLEM *(From Lesson 13)*

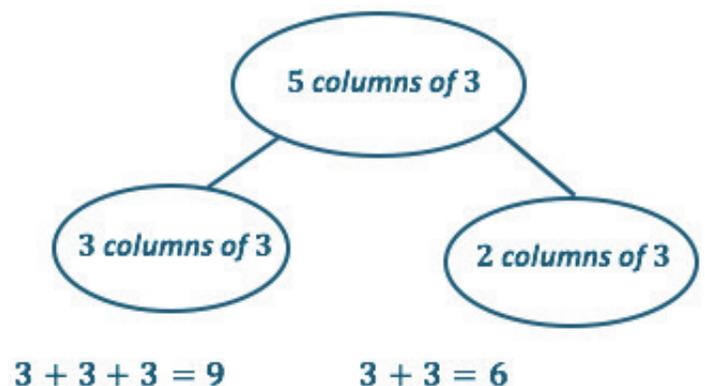Cut out and use your square tiles to complete the steps for the problem.

Step 1: Construct a rectangle with 5 columns of 3.
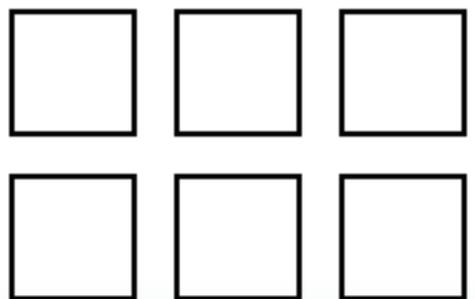
Step 2: Separate 3 columns of 3.

Step 3: Write a number bond to show the whole and two parts. Write a repeated addition sentence to match each part of the number bond.

5 columns of 3

3 columns of 3

2 columns of 3

$3 + 3 + 3 = 9$ $3 + 3 = 6$

Additional sample problems with detailed answer steps are found in the *Eureka Math Homework Helpers* books. Learn more at GreatMinds.org.

For more resources, visit » *Eureka.support*

HOW YOU CAN HELP AT HOME

- Invite your child to use sticky notes to create various arrays. Ask her to say the repeated addition equation for the rows and for the columns in each array. For example, if the array has two rows of 3 and three columns of 2, your child should say, "3 + 3 = 6" and "2 + 2 + 2 = 6." (See image below.)

- After your child creates an array and says the addition equations to match it, ask him to remove a row or column and then say the equations that match the new array.

- Play games with your child that involve arrays, such as Memory, Connect 4, or Tic-Tac-Toe.

TERMS

Compose/Decompose: To make (compose) or break apart (decompose) a number, a figure, or an array.