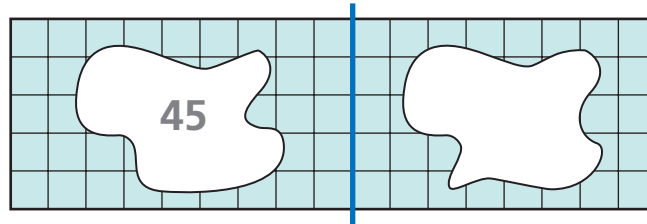


# Separating Arrays into Two Regions

NCTM Standards 1, 2, 6, 7, 9, 10

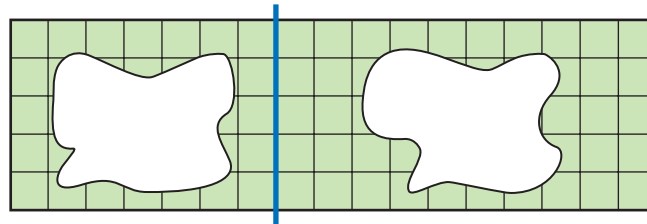
For each diagram, write the number of squares in each part. Then write a multiplication sentence for the entire array.

1



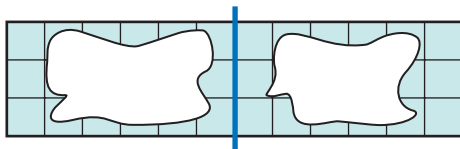
$$\square \times \square = \square$$

2



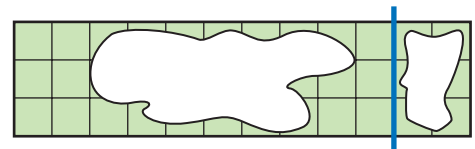
$$\square \times \square = \square$$

3



$$\square \times \square = \square$$

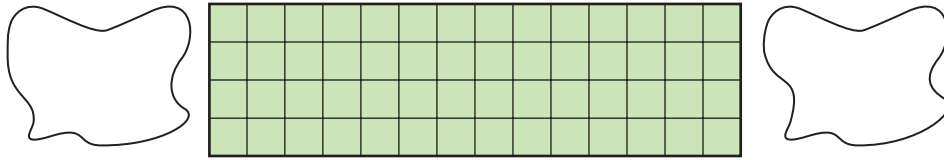
4



$$\square \times \square = \square$$

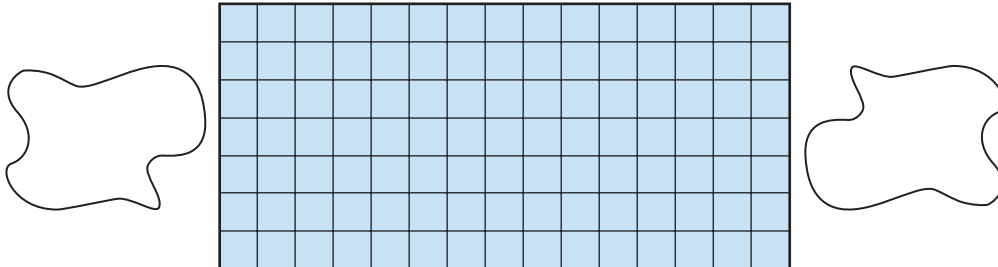
**Draw a line to cut each of the arrays into 2 smaller arrays. Use the smaller arrays to figure out the number of squares in the entire array.**

**5**



$$\square \times \square = \square$$

**6**



$$\square \times \square = \square$$

**7** Sol's store sold pens in packs of 5. Today, Sol sold 16 packs of pens. Ten of the packs contained black pens, and the rest had blue pens. How many pens of each type did Sol sell?

\_\_\_\_\_ black pens and \_\_\_\_\_ blue pens

**8 Challenge** Draw a picture to show how you can use the numbers you wrote in Problem 7 to help you solve  $16 \times 5$ .