

# The Break-Apart Strategy

## Home Link 5-11

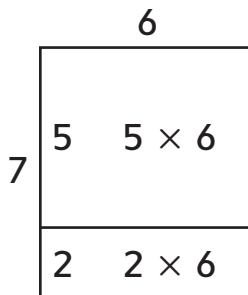
NAME \_\_\_\_\_

DATE \_\_\_\_\_

TIME \_\_\_\_\_

**Family Note** Today your child learned how to break apart one number in a multiplication fact in order to make two helper facts that are easier to solve. Using areas of rectangles helps to illustrate this, as in the example below.

- $7 \times 6 = ?$
- Break apart the 7 into 5 and 2.
- There are two helper facts:  $5 \times 6$  and  $2 \times 6$ .
- So  $7 \times 6 = 5 \times 6 + 2 \times 6$   
 $7 \times 6 = 30 + 12$   
 $7 \times 6 = 42$



*Please return this Home Link to school tomorrow.*

Show one way you can solve  $7 \times 9 = ?$ .

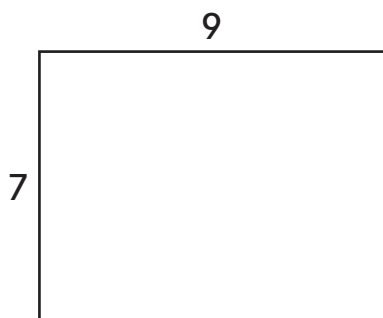


I will break apart the factor \_\_\_\_ into \_\_\_\_ and \_\_\_\_.

Helper facts that match the areas of the smaller rectangles:

\_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_ and \_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

Drawing:



Write a number model using your helper facts:

$7 \times 9 =$  \_\_\_\_\_  $\times$  \_\_\_\_\_  $+$  \_\_\_\_\_  $\times$  \_\_\_\_\_

$7 \times 9 =$  \_\_\_\_\_