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3. The 4 columns of the rectangles below are broken into two parts.

• Write a number sentence on each part that shows the number of squares.

• Add the two parts together to find the total. Write this number sentence.

A. B. B. Choose numbers that will make multiplying 4 × 7 easier.

• Write a number sentence on each part that shows the number of squares.

• Write a number sentence that shows how you find the total number of squares in the large rectangle.

B. Choose numbers that will make multiplying 4 × 7 easier.

• Write a number sentence on each part that shows the number of squares in the large rectangle.

B. Choose numbers that shows how you find the total number of squares in the large rectangle.

B. Choose number of squares in the large rectangle.

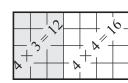
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## **Student Activity Book**

## **Exploring Break-Apart Products**

Questions 1-9 (SAB pp. 53-57)

- **1.\*** 32 squares
- **2. A.\***  $1 \times 4 = 4$ ;  $7 \times 4 = 28$ ;  $8 \times 4 = 4 + 28 = 32$  squares
  - **B.\***  $4 \times 4 = 16$ ;  $4 \times 4 = 16$ ;  $8 \times 4 = 16 + 16 = 32$  squares See Figure 1 in the lesson.
- **3. A.** \*  $8 \times 1 = 8$ ;  $8 \times 3 = 24$ ;  $8 \times 4 = 8 + 24 = 32$  squares
  - **B.\***  $8 \times 2 = 16$ ;  $8 \times 2 = 16$ ;  $8 \times 4 = 16 + 16 = 32$  squares See Figure 1 in the lesson.
- **4.\*** Responses will vary. Possible responses include:
  - **A.**\*



 $4 \times 7 = 12 + 16 = 28$  squares

**B**.\*

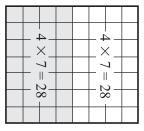
	2		7 -	_ 1	4 –	
			/ - I	- I	4 <sup>—</sup> I	
	_		7	1	1	
	Z	X	7 =	= I	4 – I	

 $4 \times 7 = 14 + 14 = 28$  squares

<sup>\*</sup>Answers and/or discussion are included in the lesson.

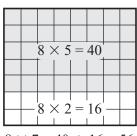
## **5.\*** Possible responses include:

**A.**\*



$$8 \times 7 = 28 + 28 = 56$$

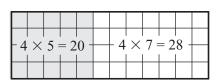
**B.**\*



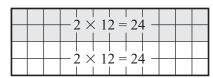
$$8 \times 7 = 40 + 16 = 56$$

See Figure 2 in the lesson.

## **6.\*** Possible responses include:

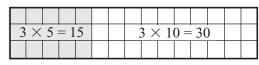


$$4 \times 12 = 20 + 28 = 48$$
 squares

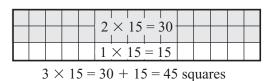


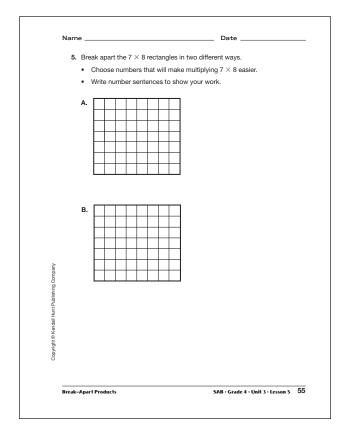
$$4 \times 12 = 24 + 24 = 48$$
 squares

## **7.** Possible responses include:

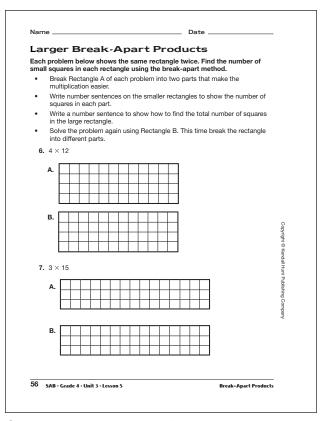


$$3 \times 15 = 15 + 30 = 45$$
 squares





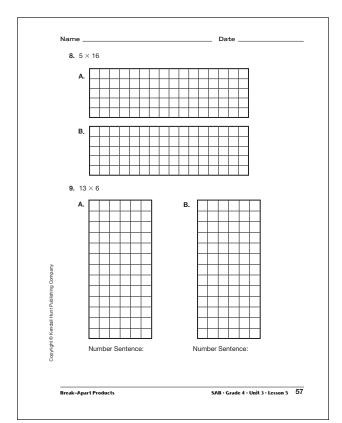
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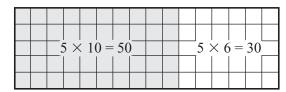
<sup>\*</sup>Answers and/or discussion are included in the lesson.

## Answer Key • Lesson 5: Break-Apart Products

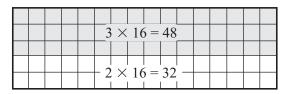


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**8.** Possible responses include:

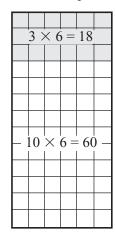


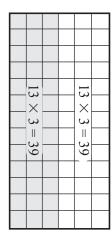
$$5 \times 16 = 50 + 30 = 80$$
 squares



$$5 \times 16 = 48 + 32 = 80$$
 squares

**9.** Possible responses include:





$$13 \times 6 = 18 + 60 = 78$$

$$13 \times 6 = 39 + 39 = 7$$

## Student Activity Book

# Writing Number Sentences for Break-Apart Products

## **Questions 1–4 (SAB pp. 59–60)**

- **1. A.\*** 7 rows, 3 columns
  - **B.\***  $7 \times 3 = 21$
- **2. A.\***  $5 \times 3 = 15$ 
  - **B.\***  $2 \times 3 = 6$
  - **C.\***  $7 \times 3 = 15 + 6$ ;  $7 \times 3 = 21$
- **3. A.**  $10 \times 4 = 40$ 
  - **B.**  $3 \times 4 = 12$
  - **C.**  $13 \times 4 = (10 \times 4) + (3 \times 4);$   $13 \times 4 = 40 + 12;$   $13 \times 4 = 52$
- **4. A.**  $13 \times 2 = 26$ 
  - **B.**  $13 \times 2 = 26$
  - **C.**  $13 \times 4 = (13 \times 2) + (13 \times 2);$   $13 \times 4 = 26 + 26;$   $13 \times 4 = 52$

1. A.	How many rows and columns does the rectangle to the right have?  Rows: Columns:	
В.	Write a number sentence for the total number of squares.	
2. A.	Write a number sentence on the shaded part of the rectangle at the right to show the number of shaded squares.	
В.	Write a number sentence on the unshaded part to show the number of unshaded squares.	
C.	Complete these number sentences using the rectangle for Question 2: $7\times3=\underbrace{5\times3}+\underbrace{2\times3}$ $7\times3=\underline{\qquad}+\underline{\qquad}$ $7\times3=\underline{\qquad}$	

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Name _	Date	
3. A.	Shade in the first 10 rows of the rectangle on the right. Write a number sentence on the shaded part to show the total number of shaded squares	
В.	Write a number sentence on the unshaded part to show the total number of unshaded squares.	
C.	Complete the number sentences below to match the rectangle:	
	13 × 4 = ( × 4) + ( × 4)	
	13 × 4 =+	
	13 × 4 =	
4. A.	The first two columns of the rectangle on the right are shaded. Write a number sentence to show the number of shaded squares.	
В.	Write a number sentence to show the number of unshaded squares.	
C.	Complete the following number sentences to match the rectangle.	
	13 × 4 = ( × 2) + ( ×)	
	13 × 4 =+	
	13 × 4 =	
O SAB	Grade 4 · Unit 3 · Lesson 5	Break-Apart Products

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<sup>\*</sup>Answers and/or discussion are included in the lesson.