

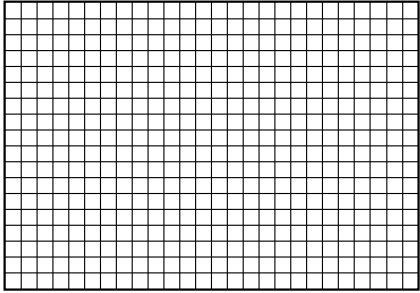
**Student Activity Book**

**How Many Squares (SAB pp. 159–160)  
Questions 1–2**

- 1.\* See Figure 2 in the Lesson.
- 2.\* See Figure 3 in the Lesson.

Name \_\_\_\_\_ Date \_\_\_\_\_

**How Many Squares**



1. How many small squares are in the rectangle above? Show or tell how you found your answer.

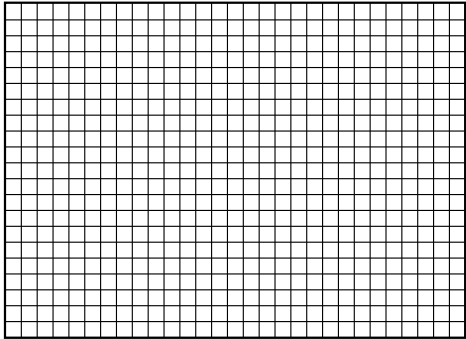
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2. How many small squares are in the rectangle above? Solve the problem a different way from the way you solved the problem in Question 1.

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Complete Questions 3–6 on the *Explore Multiplication by Multidigit Numbers* pages in the *Student Guide* for more practice.

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

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### Using Rectangles to Multiply

Complete the rectangles for each multiplication problem. Then solve.

**Example:**

$14 \times 32 = 448$		30	2	
10	$10 \times 30 = 300$	$10 \times 2 = 20$		300
4	$4 \times 30 = 120$	$2 \times 4 = 8$		120
				+ 8
				448

1.  $17 \times 25 = \underline{\hspace{2cm}}$

$17 \times 25 = \underline{\hspace{2cm}}$		20	5	
10	$10 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$	$10 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$		
7	$7 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$	$7 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$		

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2.  $26 \times 64 = \underline{\hspace{2cm}}$

$26 \times 64 = \underline{\hspace{2cm}}$		60	4	
20				
6				

3.  $39 \times 72 = \underline{\hspace{2cm}}$

$39 \times 72 = \underline{\hspace{2cm}}$		70	2	
30				
9				

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**Using Rectangles to Multiply (SAB pp. 161–164)**  
**Questions 1–9**

1. 425

$425$		20	5
10	$10 \times \underline{20} = \underline{200}$	$10 \times \underline{5} = \underline{50}$	
7	$7 \times \underline{20} = \underline{140}$	$7 \times \underline{5} = \underline{35}$	

$200 + 140 + 50 + 35 = 425$

2. 1664

$1664$		60	4
20	$20 \times 60 = 1200$	$20 \times 4 = 80$	
6	$6 \times 60 = 360$	$6 \times 4 = 24$	

$1200 + 360 + 80 + 24 = 1664$

3. 2808

$2808$		70	2
30	$30 \times 70 = 2100$	$30 \times 2 = 60$	
9	$9 \times 70 = 630$	$9 \times 2 = 18$	

$2100 + 630 + 60 + 18 = 2808$

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## Answer Key • Lesson 3: Explore Multiplication by Multidigit Numbers

4. 2538

	40	7
50	$50 \times 40 = 2000$	$50 \times 7 = 350$
4	$4 \times 40 = 160$	$4 \times 7 = 28$
	$2000 + 160 + 350 + 28 = 2538$	

5. 2822

	80	3
30	$30 \times 80 = 2400$	$30 \times 3 = 90$
4	$4 \times 80 = 320$	$4 \times 3 = 12$
	$2400 + 320 + 90 + 12 = 2822$	

6. 1748

	90	2
10	$10 \times 90 = 900$	$10 \times 2 = 20$
9	$9 \times 90 = 810$	$9 \times 2 = 18$
	$900 + 810 + 20 + 18 = 1748$	

For Questions 4-9, sketch your own rectangles to represent each problem.

4.  $54 \times 47 =$  \_\_\_\_\_

5.  $34 \times 83 =$  \_\_\_\_\_

6.  $92 \times 19 =$  \_\_\_\_\_

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**Answer Key • Lesson 3: Explore Multiplication by Multidigit Numbers**

Name \_\_\_\_\_ Date \_\_\_\_\_

7.  $44 \times 44 =$  \_\_\_\_\_

8.  $29 \times 89 =$  \_\_\_\_\_

9.  $61 \times 79 =$  \_\_\_\_\_

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7. 1936

	40	4
40	$40 \times 40 = 1600$	$40 \times 4 = 160$
4	$4 \times 40 = 160$	$4 \times 4 = 16$

$1600 + 160 + 160 + 16 = 1936$

8. 2581

	80	9
20	$20 \times 80 = 1600$	$20 \times 9 = 180$
9	$9 \times 80 = 720$	$9 \times 9 = 81$

$1600 + 720 + 180 + 81 = 2581$

9. 4819

	60	1
70	$70 \times 60 = 4200$	$70 \times 1 = 70$
9	$9 \times 60 = 540$	$9 \times 1 = 9$

$4200 + 540 + 70 + 9 = 4819$

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