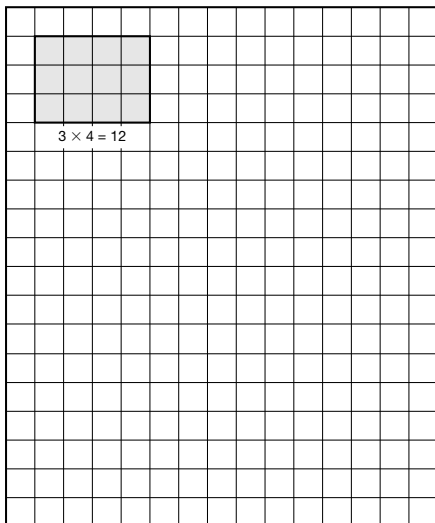


Student Activity Book

Name _____ Date _____

Exploring Factors Using Tiles

1. Diana drew the rectangle below to show $3 \times 4 = 12$. Use 12 tiles to make as many rectangles as you can. Shade them in and write a multiplication sentence by each rectangle.

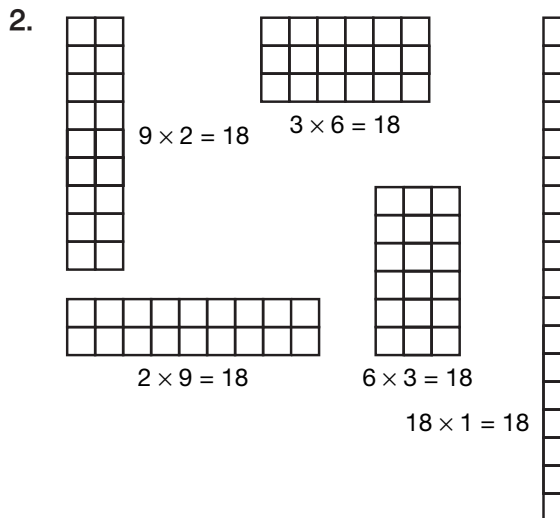


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Exploring Factors Using Tiles (SAB pp. 269–270)

Questions 1–2

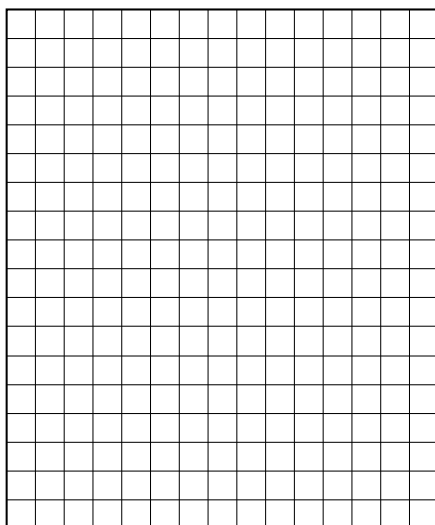
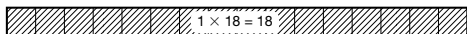
- 1.* See Figure 3 Lesson.



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Name _____ Date _____

2. Darius knows he can make a rectangle like the one below to show $1 \times 18 = 18$. Use 18 tiles to make as many rectangles as you can on the grid. Write a number sentence by each rectangle.



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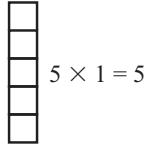
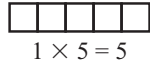
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*Answers and/or discussion are included in the lesson.

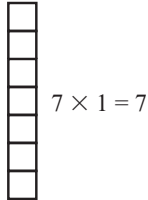
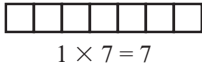
Finding More Rectangles (SAB pp. 277–278)

Questions 1–6

1.*



2.*



3.* They only have 1 row or 1 column.

4.

Number on a Side	Number in Square	Multiplication Facts
1	1	$1 \times 1 = 1$
2	4	$2 \times 2 = 4$
3	9	$3 \times 3 = 9$
4	16	$4 \times 4 = 16$
5	25	$5 \times 5 = 25$
6	36	$6 \times 6 = 36$
7	49	$7 \times 7 = 49$
8	64	$8 \times 8 = 64$
9	81	$9 \times 9 = 81$
10	100	$10 \times 10 = 100$

5. Check multiplication tables.

6. A.* Both factors are the same.

B.* They form a diagonal.

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Finding More Rectangles

Exploring Prime Numbers

- Arrange 5 tiles into rectangles in as many ways as you can. Draw your rectangles on the grid below and write a number sentence inside each rectangle.
- Arrange 7 tiles into rectangles in as many ways as you can. Draw your rectangles on the grid below and write a number sentence inside each rectangle.

3. What is special about the rectangles for 5 and 7?

Exploring Square Numbers

4. Use your tiles to build squares of different sizes up to at least 10×10 . Count the number of tiles on each side and the total number of tiles in each square. Complete the table on the next page.

1

1 2

1 2 3

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Multiplication and Rectangles **SAB • Grade 3 • Unit 8 • Lesson 4 277**

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Name _____ Date _____

Square Numbers

Number on a Side	Number in Square	Multiplication Facts
1	1	$1 \times 1 = 1$
2	4	$2 \times 2 = 4$
3	9	

5. The numbers 1, 4, 9, and so on are called **square numbers**. Enter your facts from Question 4 about square numbers in your *My Multiplication Table*.

6. A. What is special about factors of square numbers?

B. Where are the square numbers on the multiplication table?

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