Student Guide

Multiplication and Rectangles (SG p. 202) Questions 1–8

- **I.** 5 tiles. $6 \times 5 = 30$ tiles
- **2.** 35 tiles; Possible response: I skip counted by 5 seven times on the number line and landed on $35.7 \times 5 = 35$
- **3.** 3 rows; 8 tiles \times 3 rows = 24 tiles
- **4.** 4 tiles of each color; 3 colors \times 4 tiles = 12 tiles
- **5.*** $1 \times 20 = 20$
 - $2 \times 10 = 20$

$$4 \times 5 = 20$$

$$5 \times 4 = 20$$

$$10 \times 2 = 20$$

$$20 \times 1 = 20$$

6.* $1 \times 13 = 13$

$$13 \times 1 = 13$$

$$7.^{\circ} 1 \times 16 = 16$$

$$2 \times 8 = 16$$

 $4 \times 4 = 16$

$$8 \times 2 = 16$$

$$16 \times 1 = 16$$

8. I started with the shortest width, 1 tile, then I used the turn-around fact for the largest width. This worked until I reached the square 4×4 .

Homework (SG p. 203) Questions 1–5

- **I.** $3 \times 6 = 18$
- **2.** $4 \times 7 = 28$
- **3.** $5 \times 8 = 40$
- **4.** $2 \times 10 = 20$
- **5.** $3 \times 5 = 15$ or $5 \times 3 = 15$



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



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Student Activity Book

Exploring Factors Using Tiles (SAB pp. 269–270) Questions 1–2

I.* See Figure 3 Lesson.



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Finding More Rectangles (SAB pp. 277–278) Questions 1–6



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

Number on a Side	Number in Square	Multiplication Facts
1	1	1 × 1 = 1
2	4	2 × 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 × 8 = 64
9	81	9 × 9 = 81
10	100	$10 \times 10 = 100$

- **5.** Check multiplication tables.
- **6. A.*** Both factors are the same.
 - **B.*** They form a diagonal.





	Square Numbers		
Number on a Side	Number in Square	Multiplication Facts	
1	1	1 × 1 = 1	
2	4	2 × 2 = 4	
3	9		
			Copyr
			right © K
			endall H
The numbers 1, 4, 9 Enter your facts from <i>My Multiplication Tal</i> A. What is special a	and so on are called so Question 4 about squa ble. about factors of square i	uare numbers. Ire numbers in your numbers?	int Publishing Company
B. Where are the so	quare numbers on the m	ultiplication table?	

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