use squa		our classroom to fill in t you. The first two lines a	
Number of Rows	Number in Each Row	Division Sentence	Factors
1	24	24 ÷ 1 = 24	1, 24
2	12	24 ÷ 2 = 12	2, 12
. Is 24 a m	nultiple of 5? How do	you know?	
3. Is 3 a fac	ctor of 24? How do yo	ou know?	
l. Is 24 a m	nultiple of 9? How do	you know?	
1:-4 -1146	ne factors of 24.		

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		ectangles possible wi y use square-inch tiles	
Number of Rows	Number in Each Row	Division Sentence	Factors
List all the	e factors of your num	ber.	
ls vour ni	mber a multiple of 87	? How do you know?	

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How Many Rectangles with 24 Tiles? Questions 1–5 (SAB p. 41)

1.* How Many Rectangles with 24 Tiles?

Number of Rows	Number in Each Row	Division Sentence	Factors
1	24	24 ÷ 1 = 24	1, 24
2	12	24 ÷ 2 = 12	2, 12
3	8	24 ÷ 3 = 8	3, 8
4	6	24 ÷ 4 = 6	4, 6
6	4	24 ÷ 6 = 4	6, 4
8	3	24 ÷ 8 = 3	8, 3
12	2	24 ÷ 12 = 2	12, 2
24	1	24 ÷ 24 = 1	24, 1

Explanations will vary for 2–4. One possible response is given for each.

- **2.** No. You do not hit 24 if you skip count by 5s.
- **3.** Yes. You can make a rectangle with 3 rows and 24 tiles. There will be 8 tiles in each row.
- **4.** No. $24 \div 9 = 2.666 \dots$
- **5.** 1, 2, 3, 4, 6, 8, 12, 24

How Many Rectangles with _____ Tiles? Questions 1–4 (SAB p. 42)

1–4. Responses will vary depending on number given by the teacher.

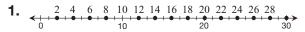
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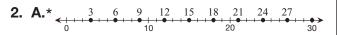
^{*}Answers and/or discussion are included in the lesson.

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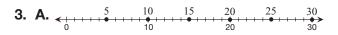
Factors and Multiples on the Number Line (SAB p. 43)

Questions 1-3





B.* All of them. They are divisible by 3.



B. Yes, they are all divisible by 5.

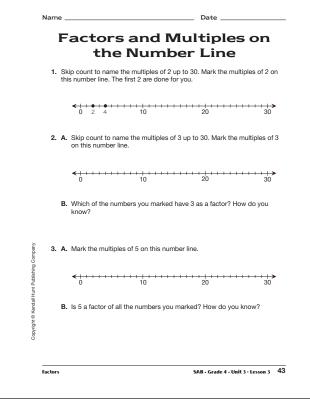
How Many Rectangles with 30 Tiles? Questions 1–5 (SAB p. 45)

1. How Many Rectangles with 30 Tiles?

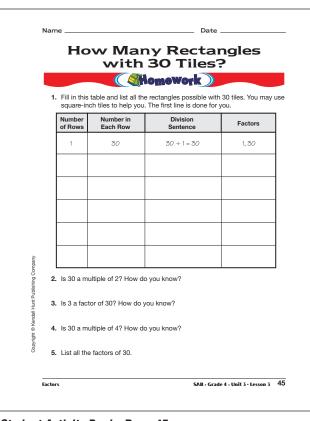
Number of Rows	Number in Each Row	Division Sentence	Factors
1	30	30 ÷ 1 = 30	1, 30
2	15	30 ÷ 2 = 15	2, 15
3	10	30 ÷ 3 = 10	3, 10
5	6	30 ÷ 5 = 6	5, 6
6	5	30 ÷ 6 = 5	6, 5
10	3	30 ÷ 10 = 3	10, 3
15	2	30 ÷ 15 = 2	15, 2
30	1	30 ÷ 30 = 1	30, 1

Explanations will vary for 2–4. One possible response is given for each.

- **2.** Yes. You can make a rectangle with 2 rows and 30 tiles.
- **3.** Yes. You hit 30 if you skip count by 3.
- **4.** No. $30 \div 4 = 7.5$, not a whole number.
- **5.** 1, 2, 3, 5, 6, 10, 15, 30



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