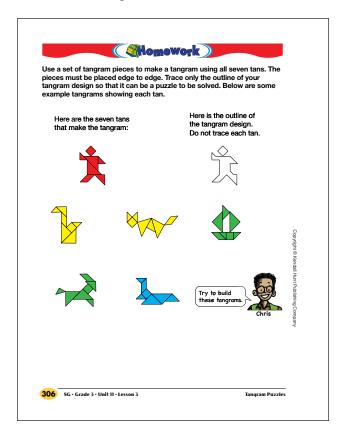
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# Student Guide

# Tangram Puzzles (SG p. 305)



There is one solution. The square can be rotated and flipped into 8 configurations.

# Homework (SG p. 306)

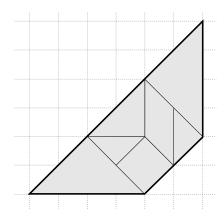
Students' tangrams will vary.

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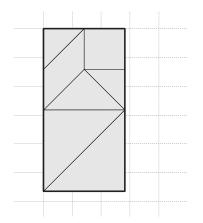
# **Student Activity Book**

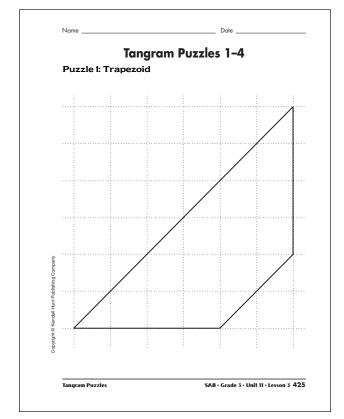
# **Tangram Puzzles 1–4 (SAB pp. 425–428)**

Puzzle 1: Trapezoid

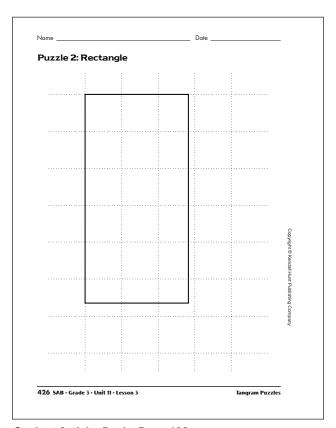


Puzzle 2: Rectangle



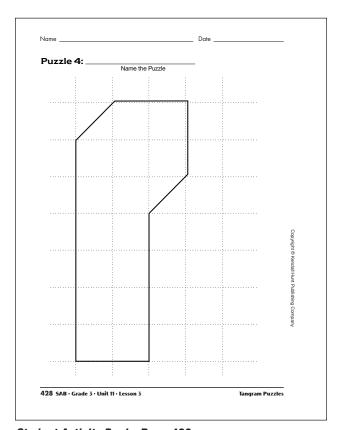


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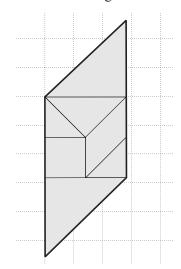
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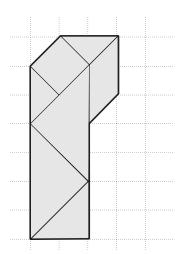


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Puzzle 3: Parallelogram



Puzzle 4



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# **Student Activity Book**

# Tangram Puzzle Table\* (SAB p. 429)

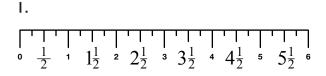
Tangram Puzzle Table

Puzzle	No. of Sides	No. of Vertices	No. of Right Angles	Area (sq. in.)	Perimeter (inches)
Square	4	4	4	16	16
Trapezoid	4	4	0	16	19½
Rectangle (non-square)	4	4	4	16	17
Parallelogram	4	4	0	16	19
Puzzle 4	7	7	3	16	19

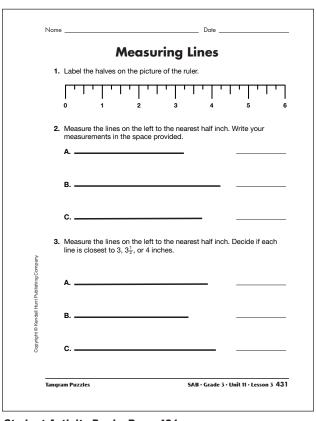
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	Puzzle	Square	Trapezoid	Rectangle (non-square)	Parallelogram	Puzzle 4	
Tangı	No. of Sides						
ʻam Puz	No. of Vertices						
Tangram Puzzle Table	No. of Right Angles						
	Area (sq. in.)						
	Perimeter (inches)						

# Student Activity Book - Page 429

# Measuring Lines (SAB p. 431) Questions 1–3

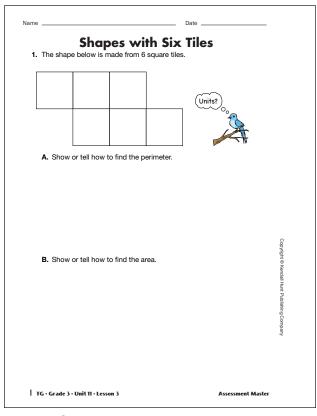


- **2. A.** 3 inches
  - **B.** 4 inches
  - **C.**  $3\frac{1}{2}$  inches
- **3. A.**  $3\frac{1}{2}$  inches
  - **B.** 3 inches
  - C. 4 inches

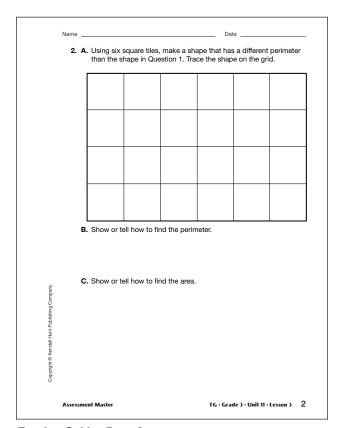


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<sup>\*</sup>Answers and/or discussion are included in the lesson.



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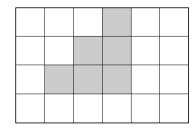
### **Teacher Guide**

# Shapes with Six Tiles (TG pp. 1–4) Questions 1–5

- **I. A.** 12 inches; Methods for finding perimeter will vary. Possible response: I counted all the edges around the shape.
  - **B.** 6 square inches; Methods for finding area will vary. Possible response: I counted each square. Every tile is one square inch, so the area is 6 square inches.

Shapes will vary for Questions 2–3. One sample shape is given in Question 2A:

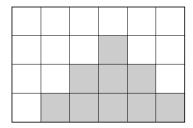
**2. A.** Sample shape:



- **B.** Perimeter will vary based on shape. Sample shape's perimeter:12 inches; Methods for finding perimeter will vary. Possible response: I measured the outline of the shape and added the inches.
- **C.** 6 square inches; Explanations will vary.

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- 3. A. Shapes will vary.
  - **B.** Perimeter will vary based on shape.
  - **C.** 6 square inches; Explanations will vary.
- **4. A.** The three shapes have the same area, 6 square inches.
  - **B.** Yes, different shapes can have the same area but different perimeters. For example, the shape in Question 1 has an area of 6 square inches and a perimeter of 12 inches. I used the same 6 tiles to make a shape with 6 square inches, but it had a different perimeter.
- **5. A.** Shapes will vary. Sample shape:



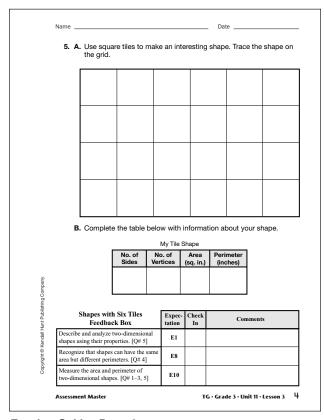
**B.** Based on shape in Question 5A.

My Tile Shape

No. of	No. of	Area	Perimeter (inches)
Sides	Vertices	(sq. in.)	
12	12	9	16

3.	Date  A. Using six square tiles, make another shape that has a different perimeter than the shapes in Questions 1 and 2. Trace the shape on						
	ie snape on						
	B. Show or t	ell how to fir	nd the perim	eter.			0
							opyrigi
							Copyright @ Kendall Hunt Publishing Company
	C. Show or t	ell how to fir	nd the area.				ndall H
4	A. Compare	the chance	in Ougation	1 2 What	do vou not	ioo about	unt Pul
٠.		of the three s		5 1-5. Wilat	do you not	ice about	olishing
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							any
	B. Can differ Give an e	ent shapes xample to si			different pe	erimeters?	
		. ,		-9-			
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