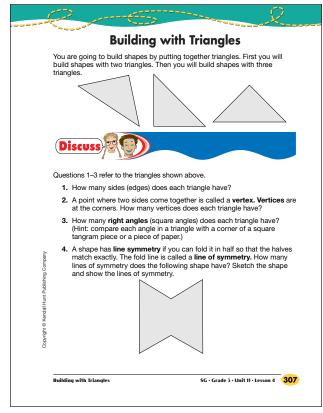
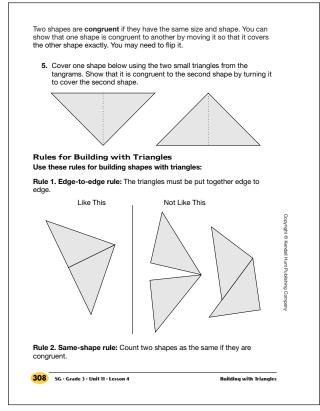
Answer Key • Lesson 4: Building with Triangles



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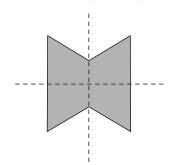


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Student Guide

Building with Triangles (SG pp. 307–309) Questions 1–9

- I. 3 sides
- **2.** 3 vertices
- **3.** 1 square corner or right angle
- **4.** Two lines of symmetry



5. Students move triangles as directed.

Answer Key • Lesson 4: Building with Triangles

6.*	Sketch of Shape	No. of Sides	No. of Vertices	No. of Right Angles	No. of Lines of Symmetry
		4	4	4	4
		3	3	1	1
	\square	4	4	0	0

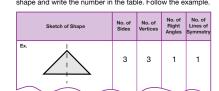
7.* Answers will vary. May include the fact that the number of vertices always equals the number of sides.

8.*	Sketch of Shape	No. of Sides	No. of Vertices	No. of Right Angles	No. of Lines of Symmetry
		4	4	2	0
		5	5	1	0
		4	4	0	1
		5	5	2	1

9.* Answers will vary.

Building with Two Triangles

- Find all the different shapes you can make by putting two triangles together edge to edge. Complete the Building with Two Triangles table in your Student Activity Book:
 - A. Sketch the outline of each shape in the table.
 - **B.** Count the sides, vertices, and right angles of each shape and record the numbers in the table.
 - record the numbers in the table.C. Find all lines of symmetry for each shape. Draw them on your shape and write the number in the table. Follow the example.

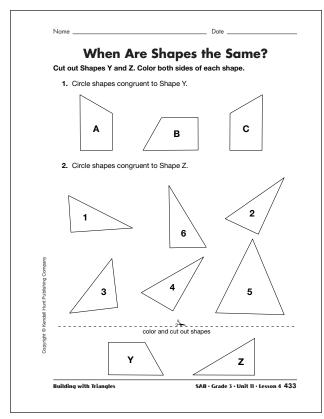


7. Find and describe at least one pattern in your table.

Building with Three Triangles

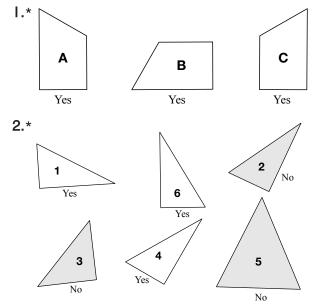
8.	Find all the shapes that can be made by putting three triangles together edge to edge. Complete the <i>Building with Three Triangles</i> tabl in your <i>Student Activity Book</i> . Follow the steps in 6A–6C.
9.	Find and describe a pattern in your new table.
Buildir	g with Triangles SG • Grade 3 • Unit 11 • Lesson 4

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Student Activity Book

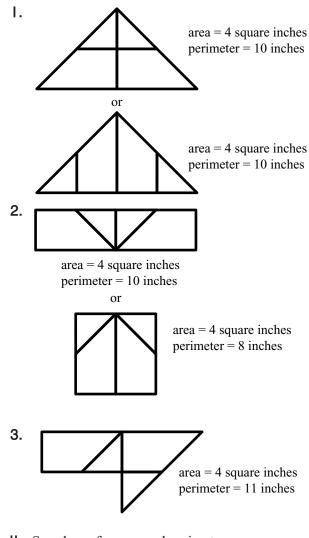




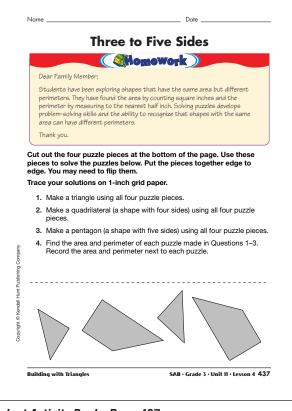
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 $^{\star}\mbox{Answers}$ and/or discussion are included in the lesson.





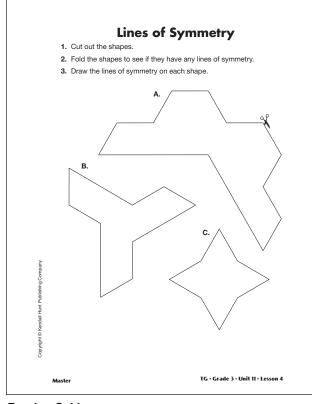
- 4. See above for area and perimeter.
- 5. The area is the same: 4 square inches
- 6. The perimeter varies from 8–11 inches



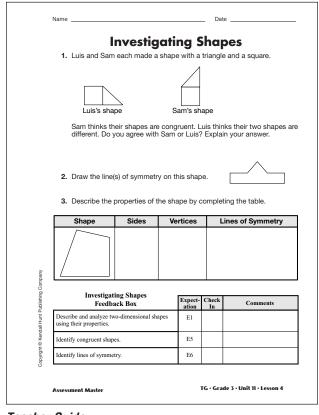
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		Company
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		0
0.		
6.	What do you notice about the perimeter of the three puzzles?	
0.		
	Date What do you notice about the area of the three puzzles?	

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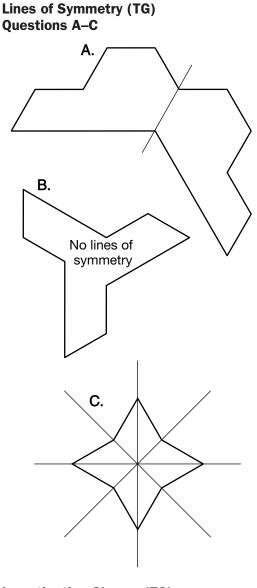


Teacher Guide





Teacher Guide



Investigating Shapes (TG) Questions 1–3

I. Sam is correct. Luis's shape can be turned to fit exactly on top of Sam's shape. They are congruent.

