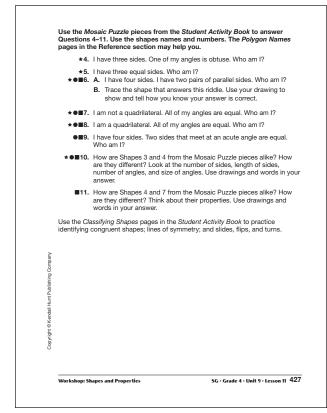
Self-Check: Qu	estions 1-3		
ut out the pieces of th ctivity Book. Use the p			
 Study the pieces. A. What shape na B. What shape na 		ach piece?	
 Try to put the piec so you cannot see 		a large rectangle.	Close your book,
se the following menu escribing and analyzir			omplete to practice
	Working On It", you h problems you sho		r you already "Got
 If one set of proble complete. 	ems seems too easy	/ or too hard, choo	se a different set to
Can I Do This?	Working On It! I could use some extra help.	Getting It! I just need some more practice.	Got It! I'm ready for a challenge.
Describe and analyze shapes using their properties.	★Q# 4–8, 10	●Q# 6–10	■Q# 6–11



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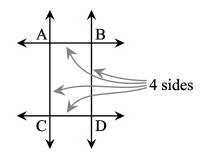
*Answers and/or discussion are included in the lesson.

Student Guide

Workshop: Shapes and Properties

Questions 1-17 (SG pp. 426-446)

- 1. Responses will vary. Students may say they can combine shapes to make other shapes they have, make new shapes, or sort the shapes into groups.
- 2. A.* Responses will vary. Students can use quadrilateral, rectangle, triangle, trapezoid, and parallelogram. For triangles they can use the terms right, obtuse, acute, isosceles, scalene, and equilateral.
 - B.* Shape 1 isosceles triangle
 Shape 2 equilateral triangle or regular triangle
 Shape 3 rectangle
 Shape 4 trapezoid
 Shapes 5 and 6 right triangle
 Shape 7 trapezoid
- **3.*** See lesson.
- **4.** 1; isosceles triangle
- 5. 2; equilateral triangle
- 6. A. 3; rectangle
 - **B.** \overrightarrow{AB} is parallel to \overrightarrow{CD} \overrightarrow{AC} is parallel to \overrightarrow{BD}



- 7. 2; equilateral triangle
- 8. 3; rectangle
- **9.** 7; trapezoid or quadrilateral
- **10.** Possible responses: They both have four sides. Shape 3 has two pairs of parallel sides, but shape 4 has only one. All of shape 3's angles are right angles, while shape 4 has two acute angles and two obtuse angles.

Answer Key • Lesson 11: Workshop: Shapes and Properties

- **11.** Possible responses: They both have four sides. They both have one pair of parallel sides, so they are both trapezoids. Shape 4 has two pairs of matching angles, Shape 7 has all different angles. They both have two acute and two obtuse angles.
- **12.** Isabel is a hexagon. She has six lines of symmetry and six vertices.
- **13.** A hexagon is more important. It has six lines of symmetry and six vertices, whereas a square has four lines of symmetry and four vertices. The people with more lines of symmetry and vertices are more important.
- **14.** A square has more lines of symmetry than a non-square rectangle.
- **15.** The farmers are all right triangles. They are not important as they have only three vertices, and at most one line of symmetry.
- **16.** Hugo Left is congruent to Izzie Right, as they are reflections, or flips, of each other.
- **17.** Professor Peabody showed that the Lefty and Righty triangles were actually the same shapes, just flipped in two different directions.

EX	plore	
Use tł	ne Journey to Flatopia story to answer the following questions.	
■12.	What kind of shape is Isabel Newton? How many lines of symmetry does she have? How many vertices does she have?	
■13.	Who is more important in Flatopia, a hexagon or a square? Why?	
■14.	Why is a square considered more important than a non-square rectangle?	
∎15.	What shape are the farmers in Flatopia? Are they considered important people there? Why or why not?	
■16.	Is the farmer named Hugo Left congruent to Izzie Right? Show or tell how you know.	
■17.	How did Professor Peabody solve the right triangle feud?	
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