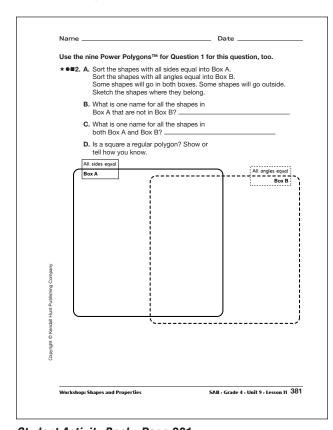


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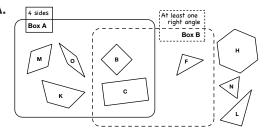
*Answers and/or discussion are included in the lesson.

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Classifying Shapes

Questions 1-5 (SG pp. 380-384)

I. A

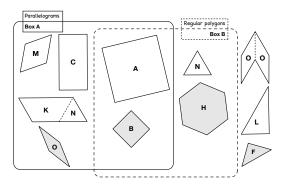


- **B.** quadrilaterals
- **C.** rectangles
- **D.** A square has 4 sides, so it is a quadrilateral.
- **2. A.*** See Figure 2 in the lesson. **B.*** rhombus or parallelogram
 - C.* regular polygons
 - **D.*** A square is a regular polygon. Possible response: Regular polygons have all equal sides and all equal angles. A square has four equal sides and all right angles, so it is a regular polygon.
- 3. A.

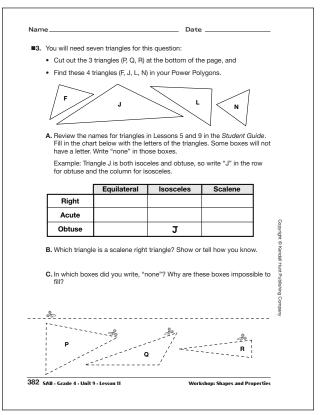
	Equilateral	Isosceles	Scalene
Right	None	F	L
Acute	N	N, R	P
Obtuse	None	J	Q

- **B.** Triangle L is a right scalene triangle. All of its sides are different lengths, so it is scalene. It has a right angle so it is a right triangle. I checked the angles with a corner of my orange square.
- **C.** I wrote none in the boxes for equilateral right triangle and equilateral obtuse triangle. Equilateral triangles are also regular polygons, so they have all equal angles. All three angles add up to 180 degrees. Because they are all equal, they are all $180 \div 3 = 60$ degrees. So there cannot be a 90 degree angle in an equilateral triangle or an obtuse angle that is greater than 90 degrees.

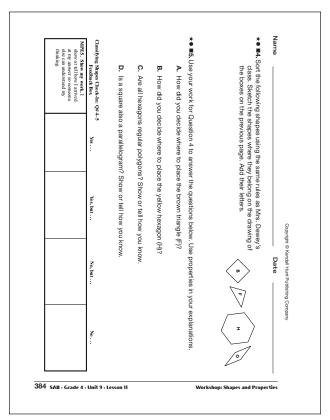
4. Students should sketch Polygons O, B, H, and F as shown below.



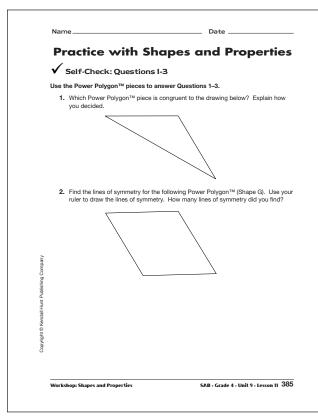
- **5. A.** The brown triangle does not have parallel sides, so it is not a parallelogram and it does not have all equal sides, so it is not a regular polygon. So I put F outside both boxes.
 - **B.** The yellow hexagon has all equal angles and all equal sides, so it is a regular polygon and I put it in Box B. I didn't put it in Box A because a parallelogram has only 4 sides and the hexagon has six sides.
 - **C.** All hexagons are not all regular polygons. The shape made from two brown rhombuses (Polygon O) is a hexagon and it is not in Box B because all of the angles are not equal.
 - **D.** A square is a parallelogram. To be a parallelogram, a shape has to have 4 sides with two pairs of parallel sides. A square has 4 sides and opposite sides are parallel, so it is a parallelogram, too.



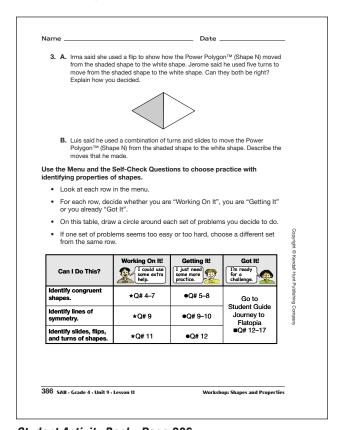
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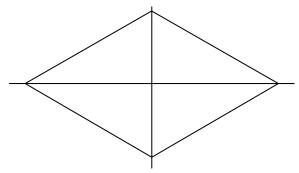
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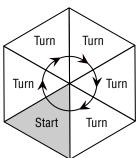
Practice with Shapes and Properties

Questions 1-12 (SAB pp. 385-395)

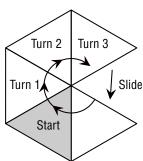
- I. Piece J. Possible response: When I put the yellow isosceles triangle over the drawing, it fits perfectly. It is the same size and shape.
- **2.** Two lines of symmetry.

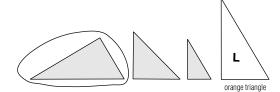


3. A. They are both right. Possible response: I used the green triangle and when I flipped it once from the shaded shape it lands exactly on the white shape. Then I put it on the shaded shape and turned it five times from the corner, and it also landed on the shaded shape.



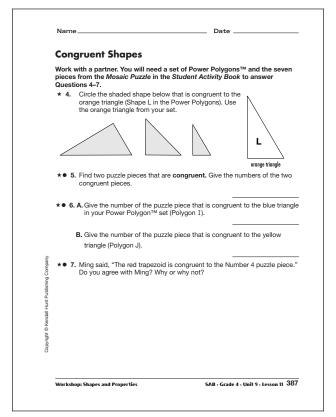
B. Possible response: First he made three turns and then he used a slide to move the triangle onto the shaded shape.





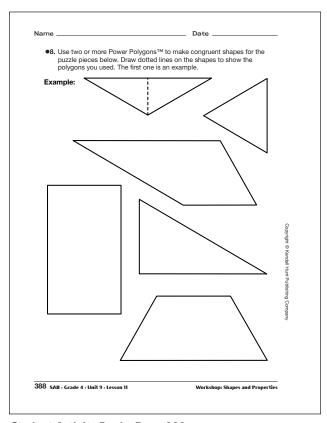
- **5.** Shapes 5 and 6 are congruent.
- **6. A.** Shape 2
 - **B.** Shapes 5 and 6
- **7.** Ming is incorrect.

The red trapezoid (Polygon K) is the same shape as the Number 4 puzzle piece, but it is not the same size. If you put the red trapezoid on top of the puzzle piece, they do not match exactly, so they are not congruent.

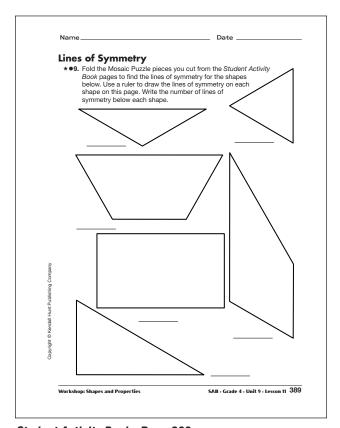


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Answer Key • Lesson 11: Workshop: Shapes and Properties

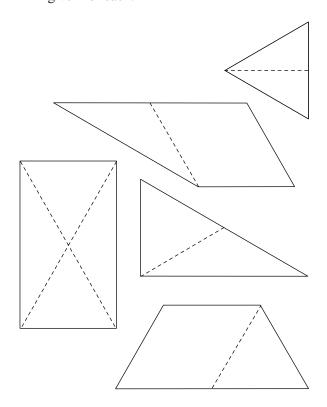


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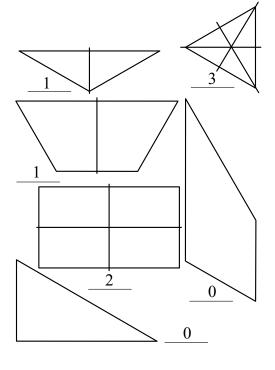


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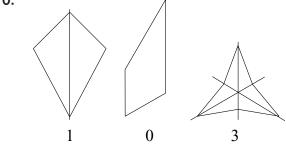
8. Responses will vary. One possible response is given for each.



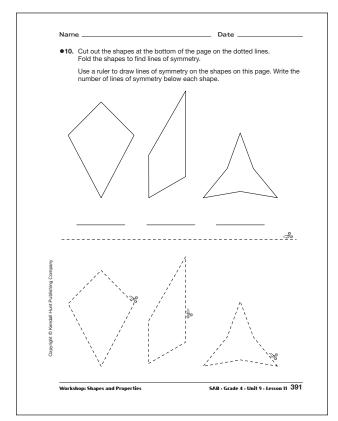
9.



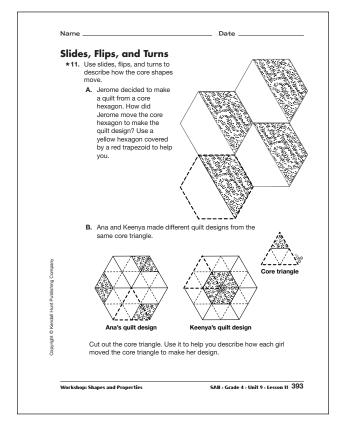
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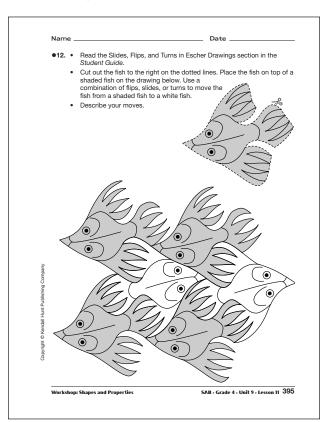
- **11. A.** Jerome used a slide 4 times. He moved the hexagon core shape up, then to the right, then up. Other combinations of slides are possible.
 - **B.** One possible response is given for each:
 Ana flipped the core triangle over one side 5 times. Keenya rotated the core triangle 6 times around the center point.
- **12.** One possible response: I rotated the shaded fish around his nose and then slid it to match a white fish exactly.



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