## Answer Key • Lesson 5: Sorting Shapes

## **Student Guide**

## Sorting Shapes (SG pp. 310–313) Questions 1–7

- 1.\* The shapes in Group 1 all have right angles and the shapes in Group 2 do not.
- A. Yes, I agree with Peter. Every shape in Group 1 has opposite sides that are the same length.
  - **B.** Responses will vary. One possible response given for each group:



- **C.** Natasha's shape belongs in Group 1.
- **3. A.** At least one set of parallel sides.
  - **B.** I do not agree with Shannon. All the shapes in Group 1 do not have a right angle. Three of them do but two do not.
  - **C.** I do agree with Chris. All the shapes have at least one pair of parallel sides.

1. Maya sorted some use to sort the sha	Sorting Shap	es	
1. Maya sorted some use to sort the sha	sorting snap	es	
Group 1	pes?	s. What properties did she	
Yes L		Group 2 No	
<ol> <li>Peter sorted some</li> <li>A. Do you agree w</li> </ol>	shapes into two groups	s. not?	
Opposite Sides are Sa Group 1 Yes	Opposite S	des are Not Same Length Group 2 No	Copyright © Kendall Hunt
B. Draw a new sha Peter used.	pe for both groups tha	t matches the property	Publishing
C. Natasha drew the belong to and w	e following shape. Wh hy?	ich group does this shape	Company
Natasha		7	
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A. Wha		vise to sor	t the shape	Group 2 No	
B. Shar	non thinks the sha bes in Group 2 do r	pes in Grou	up 1 all have agree? Why	e a right angle	and th
<b>C.</b> Chris para Grou	s thinks the shapes llel sides. Does this ip 1?	in Group 1 s property c	each have lescribe all	at least one p of the shapes	air of n
are alw dist	allel sides aays the same ance apart.	Chris	Like railn	es of a road	

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- **4. A.** A trapezoid has one pair of parallel sides.
  - **B.** Possible response:



The trapezoid has to have four sides and one pair of opposite sides needs to the same distance apart or parallel. The top and the bottom of the shape I drew are parallel.

- **5. A.** A parallelogram has two pairs of parallel sides.
  - **B.** Possible response:



The top side is parallel to the bottom and the ends are parallel to each other, too. The shape is a parallelogram.

**6. A.** 4 sides, 4 angles, two pairs of parallel sides, all sides are equal, opposite angles are equal.



The shape has four equal sides and opposite angles are equal.

- **C.** Yes. Because a square has four equal sides and opposite angles are equal.
- **7. A.** None of the shapes in Group 1 have a right angle.

**B.** Group 1:



This shape does not have any right angles. Group 2:



This shape has 4 right angles like the other shapes in Group 2.

