Student Guide

**Workshop: Shapes Classification
(SG pp. 290–292)
Questions 1–7**

1. **A.** rectangle

   B. trapezoid

   C. isosceles triangle

2. **A.** Shapes 1, 2, 4, 8, and 12

   B. Shapes 1, 2, 3, 4, 6, 7, 11, and 12

   C. Shapes 1, 2, 4, and 12

3.* See Figure 3 in the lesson.

   A. Shapes 1, 2, 3, 4, 6, 7, 11, 12; These shapes are called parallelograms.

   B. Shapes 8, 9, and 10; These shapes are called trapezoids.

   C. Shape 5

   D. Possible response: I do not agree with Jessie. Shape 5 does not have any parallel sides so it does not belong in Box A or Box B.
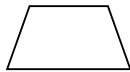
4. **A.** square

   B. rhombus
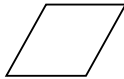
   C. trapezoid

   D. square

   E. square

   F. square

5.* See Figure 4 in the lesson.

   A. Shapes 2, 3, 6, and 7

   B. Rhombuses

   C. No, Shape 9 does not have 2 sets of parallel sides and congruent sides. It is a trapezoid with one set of parallel sides.

   D. I do not agree with Ana. A square is a rectangle and a rhombus so it needs to go into the overlap to show that it can be classified as both shapes.

   E. I do agree with Peter's placement. He drew a rectangle. A rectangle has four right angles and the opposite sides are congruent.

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

Workshop: Shapes Classification
✓ **Self-Check: Question 1**

1. What shape am I? Use the clues to name the polygon. Draw a sketch of each shape.
   A. I have four right angles but I am not a square.
   B. I am a quadrilateral with only one pair of parallel sides.
   C. Two of my three sides are congruent and I have a right angle.

Use the following menu to choose the problems you will practice.
- Decide if you are "Working On It" or you "Got It" to choose which problems you should complete.
- If one set of problems seems too easy or too hard, choose a different set to complete.

Workshop Menu

Can I Do This?	Working On It! I could use some extra help.	Got It! I'm ready for a challenge
Identify and describe two-dimensional shapes.	★ Q# 2–4	■ Q# 5–7
Classify two-dimensional shapes in a hierarchy based on properties.	★ Q# 2–4	■ Q# 5–7

Student Guide - Page 290

Use the *Quadrilateral Cards* pages and the *Sorting Board* pages in the *Student Activity Book* to answer Questions 2–7.

★**2.** Look at the quadrilaterals on the Quadrilateral Cards.
   A. List the shapes that have right angles.
   B. List which shapes have at least two congruent sides.
   C. List the shapes that are rectangles.

★**3.** Label "Box A" on the Sorting Board page as "2 pairs of parallel sides." Label "Box B" as "1 pair of parallel sides." Sort the Quadrilateral Cards.
   A. Which shapes have two pairs of parallel sides? What are these shapes called?
   B. Which shapes have only one pair of parallel sides? What are these shapes called?
   C. Which shapes are in neither Box A nor Box B?
   D. Jessie placed Shape 5 in both Box A and Box B. Do you agree with her placement? Why or why not?

★**4.** What shape am I? Use the clues to name the polygon. Draw a sketch of each shape.
   A. I am a quadrilateral that has four right angles. All of my sides are the same length.
   B. I am a quadrilateral and all of my sides are the same length. Two of my angles are acute.
   C. I am quadrilateral with only one set of parallel sides.
   D. I am a rectangle with four congruent sides.
   E. I am a rectangle that is also a rhombus.
   F. I am a rhombus that is also a square.

■**5.** Place Shape 4 from the *Quadrilateral Cards* page in the space where "Box A" and "Box B" overlap on the *Sorting Board*. Label "Box B" as "Rectangles." Sort the Quadrilateral Cards.
   A. What other shapes belong in Box A?
   B. What is an appropriate label for Box A?
   C. Does Shape 9 belong in Box A? Why or why not?
   D. Ana sketched a square and placed it in Box A but not in the overlap with Box B. Do you agree with Ana's placement? Why or why not?
   E. Peter sketched a quadrilateral with four right angles and opposite congruent sides. He put it in Box B. Do you with Peter's placement? Why or why not?

Student Guide - Page 291