Answer Key • Lesson 7: Workshop: Shapes Classification

Student Guide

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

- I. 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





- **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.







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

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- **6. A.** A square is a parallelogram, a quadrilateral, and a rectangle.
 - **B.** Yes, a square is a rectangle because it is a quadrilateral with four right angles and a square has four square corners.
 - **C.** Yes, a square can be a rhombus because a rhombus is an equilateral parallelogram. It is a special kinds of rhombus. It is a rhombus with four right angles.
 - **D.** No, a rectangle cannot be a trapezoid. A rectangle has two sets of parallel sides and a trapezoid has only one set of parallel sides.
 - **E.** Yes, a rectangle that is a square is also a rhombus but not all rectangles are rhombuses. A rectangles has four right angles but it does not have to have congruent sides.
 - **F.** Yes, a rectangle can also be a parallelogram. A parallelogram is a quadrilateral with 2 pairs of congruent sides and a rectangle has 2 pairs of congruent sides. It is a special type of parallelogram because it also has 4 right angles
- 7. A. rectangle



B. right isosceles triangle



C. square or rectangle



D. rhombus



E. trapezoid



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Louis Sorts Triangles (TG pp. 1–3) Questions 1–10



A. All the shapes in Box B have at least 2 sides that are equal.

B. All the triangles in Box A have a right angle.

- **2.** right triangles
- **3.** Look for Shape Z in the figure shown in Question 1.
- **4.** There is not one classification for the shapes in Box B. Some are isosceles triangles and some are equilateral triangles.
- **5.** Look for Shape Y in the figure shown in Question 1.
- **6.** Triangles 27 and 28 have no equal sides or a right angle.
- **7.** Look for Shape X in the figure shown in Question 1.
- 8. isosceles right triangles
- **9.** Look for Shape W in the figure shown in Question 1.
- 10. I do not agree with Julie. The triangle can be classified in Box B because it has at least two sides that are equal. It dos not have a right angle so it cannot be classified with the shapes in Box A. The shape belongs in the section of Box B that does not overlap with Box A.



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