Answer Key • Lesson 2: Tangrams

Student Guide

Tangrams (SG p. 303) Questions 1–2

- I. Students' tangram designs will vary.
- **2.*** Students' sorts will vary. See the lesson Part 1 for some possible sorts.



- 1. Answers will vary. Possible response: The other pieces that could go with the large triangle are the other large triangle, the medium triangle, and the two small triangles because they all have 3 sides. Another possible response: The other large triangle because they are a pair.
- **2.** Natasha put all of the pieces with right angles in one group, and the parallelogram with no right angles in the other group.
- **3.** Mark put all the 3-sided shapes in one group and all the 4-sided shapes in the other group.
- **4.** Responses will vary. Possible response: They are alike because they have 4 corners and 4 angles, and they are different because the square has 4 lines of symmetry and the parallelogram has no lines of symmetry.
- **5.** Responses will vary. Possible response: All the pieces except the parallelogram can be grouped together because they have at least one right angle.



Student Guide - Page 303





1. Sort	t all 7 tangram pieces	. Trace the tans to	record the groupings.
Circ	cle each separate grou	up.	
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TH 2. Des	cribe how you decide	ed to sort your piec	es.
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Student Activity Book - Page 419



Student Activity Book - Page 421

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

Tangram Sort (SAB p. 419) Questions 1–2* See Lesson Guide Part 1 for possible sorts.

Area of Tans (SAB pp. 421–422) Questions 1–2*

See Figure 5 in the lesson for the areas of the tans. See Figure 6 in the lesson for possible answers to Question 2.





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Student Activity Book

Make and Measure (SAB p. 423) Homework Questions 1–2

I. Students' shapes and their areas will vary. Sample shape:



2. Students can use the area of the small triangle or the Area of Tangram Pieces chart to find the total area of the shape. For the sample shape in Question 1, the area is 8 square inches.



Student Activity Book - Page 423







Teacher Guide - Page 2

Teacher Guide

Find the Area (TG pp. 1–2) Questions 1–2

- I. A. 16 square inches
 - **B.** Students may use the area of the small triangle to find the area of the whole square.
- **2.** 8 square inches