## 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.

## Homework (SG p. 304)

## Questions 1-5

I. 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.


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1. Mara is sorting her tangram pieces. What other pieces can be grouped with the Large Triangle? Explain why you chose to group those pieces. 2. Natasha sorted her pieces into the two groups below. Explain why she grouped them that way.

2. Mark sorted his pieces into the two groups below. Explain why he grouped them that way.

3. Darius wondered, "How are these 2 tans alike and how are they different?" What would you tell him?
4. Kathy grouped all 7 tangram pieces together. "They all have corners," she said. Think about the pieces' corners and sort them a different way. Explain why you grouped them the way you did.

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Tangrams

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


Student Activity Book - Page 419


Student Activity Book - Page 421
*Answers and/or discussion are included in the lesson.

## Student Activity Book

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 lessonfor 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.


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Find the Area
Use your tangram set to solve the problems.
The area of the small triangle is 1 square inch.


1. A. Find the area of the whole square above.
B. Explain how you found the area of the whole square.

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2. Find the area of the shape below.

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## 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

