

**Student Guide**

**Measuring Area (SG pp. 99–100)  
Questions 1–6**

1. 20 square tiles
- 2.\* Prof. Peabody numbered two tiles with the same number to show that two halves together cover one whole.
- 3.\* 64 square tiles
4. 84 square tiles:  $64 + 20 = 84$
5. A. 11 square centimeters  
B.\* about 11 square centimeters
6. A. 10 whole square centimeters  
B. Yes  
C. 15 square centimeters

### Measuring Area

**What is Area?**

Area is a measurement of size. We measure the area of a floor to find the amount of carpet needed to cover the floor. We can also use area to measure the amount of paper needed to wrap a present.

**Area** is the amount of surface that is needed to cover something. To measure the area of a shape, we tell the number of squares needed to cover the shape.

Professor Peabody has started to cover his living room and hall with square tiles. The living room is in the shape of an octagon. The hall is a rectangle.

✓ **Check-In: Questions 1-6**

1. How many square floor tiles did Professor Peabody use to cover the hall?
2. Professor Peabody has covered half of his living room with tiles. These tiles have been counted for you. Why are the numbers 31 and 32 used twice?
3. How many square floor tiles will it take to cover the whole living room?
4. How many square floor tiles will Professor Peabody need to cover the hall and living room?

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**Measuring Area** **SG • Grade 3 • Unit 5 • Lesson 2** **99**

**Student Guide - Page 99**

A **square centimeter** is the area of a square that is 1 centimeter long on each side. This is 1 square centimeter.

5. Find the area in square centimeters of these two shapes.

**A.**

**B.**

6. This shape has curved sides. Professor Peabody estimated its area. He counted whole square centimeters and matched smaller pieces with one another to estimate whole squares.

- A. How many whole squares did he count?
- B. Find the two pieces he "put together" to make square number 15. Do you agree they make about a whole square centimeter?
- C. What is Professor Peabody's estimate for the area?

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Use the *Check Each Other* page in the *Student Activity Book* to practice finding the area of shapes with curved sides.

**100** **SG • Grade 3 • Unit 5 • Lesson 2** **Measuring Area**

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**Student Guide - Page 100**

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