### **Unit 5 Module 4 Session 3**

Problems & Investigations- Measuring Area in Customary Units

Getting Ready-

- SB 181 Measuring My Math Journal
- Colored tiles (at least 80 per student pair)
- 12" × 12" piece of construction paper in a light color
- 36" × 36" piece of butcher paper in a different light color
- Rulers (class set)
- yardstick or measuring tape
- blue masking tape
- Resource card for Area



### Area Dimension Estimate Measure Square Square Unit Rectangle



- Demonstrate an understanding that a plane figure that can be covered without gaps or overlaps by n unit squares has an area of n square units
- Demonstrate an understanding that a square with a side length of 1 unit is called a "unit square" and has 1 square unit of area
- Demonstrate an understanding that unit squares can be used to measure the areas of other plane figures
- Measure the area of a plane figure by counting the number of square units that cover it
- Find the area of a rectangle with whole-number side lengths by tiling it









1.Using your ruler, measure one of your tiles. Find the height and width

2 Thinking of your tiles, what do you think the area of this square is?







36 inches = 1 yard 2 inches = 1 foot I yard foot 1 inch 36 inches = \_ 2 inches = l inch → Dimensions  $1^* \times 1^*$ Area: I square inch Dimensions 12" × 12" Area: I square foot

> Dimensions 36" × 36" Area: 1 square yard

# Page 181 Please

#### 🖉 Measuring My Math Journal

- Estimate the area of the front cover of your math journal in square inches.
  Estimate: \_\_\_\_\_\_\_
- 2 Using measurement tools from your classroom (ruler, tiles, grid paper, etc.), determine the area of the front cover of your math journal in square inches. Use words, labeled sketches, and numbers to explain how you got your answer.

Area of my math journal \_\_\_\_\_:

3 CHALLENGE. If you were to make a book cover for your entire math journal, front and back, approximately how many square inches of paper would you need? Explain your answer below.

# Work Places

4C Target One Thousand 4D Hexagon Spin & Fill 5A Solving Game Store Problems 5B Scout them Out 5C Line 'Em Up 5D Division Capture **Daily Practice** 

SB 182 Areas to Find

## Home Connection

HC 97-98 Unit 5 Review