Name

Date ____

- 1. John tiled some rectangles using square unit. Sketch the rectangles if necessary, fill in the missing information, and then confirm the area by multiplying.
 - a. Rectangle A:



b. Rectangle B:



5.C.13



2. Rachel made a mosaic from different color rectangular tiles. Three tiles measured $3\frac{1}{2}$ inches × 3 inches. Six tiles measured 4 inches $\times 3\frac{1}{4}$ inches. What is the area of the whole mosaic in square inches?

$$3\frac{1}{2} \text{ in } x 3 \text{ in } = (3x3) + (\frac{1}{2}x3) = 9 + \frac{3}{2} = 9 + 1\frac{1}{2} = 10\frac{1}{2} \text{ in}^{2} = 10\frac{1}{2} \text{ in}^{2} = 30 + \frac{3}{2} + 78 = 30 + \frac{3}{2} + 78 = 108 + 1\frac{1}{2} = 108 + 1\frac{1}{2} = 109\frac{1}{2} \text{ in}^{2}$$

$$4 \text{ in } x 3\frac{1}{4} \text{ in } = (4x3) + (4x\frac{1}{4}) = 12 + \frac{4}{4} = 12 + \frac{4}{4} = 12 + \frac{4}{4} = 12 + \frac{4}{4} = 13 \text{ in}^{2}$$

$$4 \text{ in } x 3\frac{1}{4} \text{ in } = (12 + \frac{4}{4} + \frac{1}{4}) = 12 + \frac{4}{4} = 12 + \frac{1}{4} = 13 \text{ in}^{2}$$

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3. A garden box has a perimeter of $27\frac{1}{2}$ feet. If the length is 9 feet, what is the area of the garden box?



COMMON CORE Lesson 10:

1/10/14

Find the area of rectangles with whole-by-mixed and whole-by-fractional number side lengths by tiling, record by drawing and relate to fraction multiplication.

5.C.14 engage

Date: