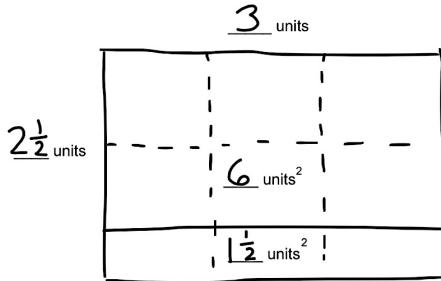Name _____ Date _____

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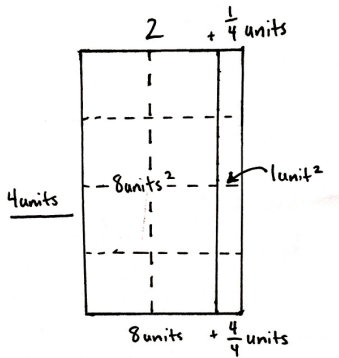
   a. **Rectangle A:**

   3 units

   $2\frac{1}{2}$ units

   6 units²

   $1\frac{1}{2}$ units²

   Rectangle A is

   3 units long $2\frac{1}{2}$ units wide

   Area = _____ units²

   b. **Rectangle B:**

   $2 + \frac{1}{4}$ units

   4 units

   8 units²   1 unit²

   8 units + $\frac{4}{4}$ units

   Rectangle B is

   _____ units long   _____ units wide

   Area = _____ units²

   c. **Rectangle C:**

   Rectangle C is

   $\frac{3}{4}$ units long   4 units wide

   Area = _____ units²

Lesson 10: 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.

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d. **Rectangle D:**

Rectangle D is

$\underline{2}$ units long $\quad\underline{1\frac{3}{4}}$ units wide

Area = _____ units^2

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 × $3\frac{1}{4}$ inches. What is the area of the whole mosaic in square inches?

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?

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Lesson 10: 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.

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