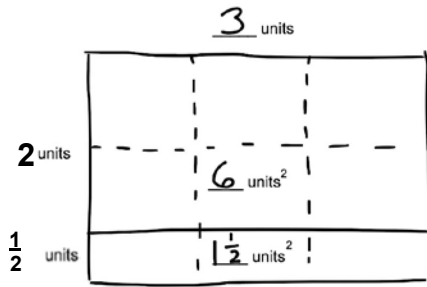




Name _____ Date _____

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:

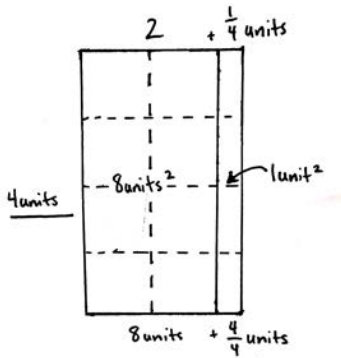


Rectangle A is

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

Area = $7\frac{1}{2}$ units²

b. Rectangle B:



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



d. Rectangle D:

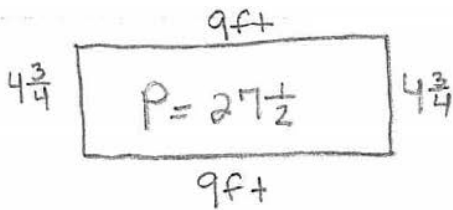
Rectangle D is

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

Area = _____ units²

2. Rachel made a mosaic from different color rectangular tiles. Three tiles measured $3\frac{1}{2}$ inches \times 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. 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?



$$\begin{aligned}
 A &= 9 \times 4\frac{3}{4} \\
 &= (9 \times 4) + (9 \times \frac{3}{4}) \\
 &= 36 + \frac{27}{4} \\
 &= 36 + 6\frac{3}{4} = 42\frac{3}{4}
 \end{aligned}$$

Area = $32\frac{3}{4}$ ft²

$$9 + 9 = 18 \text{ ft}$$

$$\begin{array}{r}
 27\frac{1}{2} \\
 -18 \\
 \hline
 9\frac{1}{2} \text{ combined width}
 \end{array}$$

$$\begin{aligned}
 9\frac{1}{2} \div 2 &= (9 \div 2) + (\frac{1}{2} \div 2) \\
 &= 4\frac{1}{2} + \frac{1}{4} = 4\frac{2}{4} + \frac{1}{4} = 4\frac{3}{4}
 \end{aligned}$$

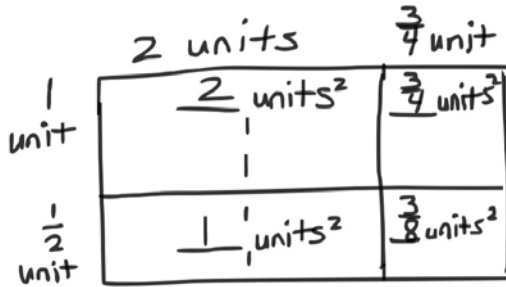


Name _____

Date _____

1. Kristen tiled the following rectangles using square units. Sketch the rectangles, and find the areas. Then, confirm the area by multiplying. Rectangle A has been sketched for you.

a. **Rectangle A:**



Rectangle A is

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

Area = $4\frac{1}{8}$ units²

$= 2\frac{3}{4} + 1\frac{3}{8}$

$= 2\frac{6}{8} + 1\frac{3}{8}$

$= 3\frac{9}{8}$

$= 3 + 1\frac{1}{8} = 4\frac{1}{8}$

$\frac{3}{4} = \frac{6}{8}$

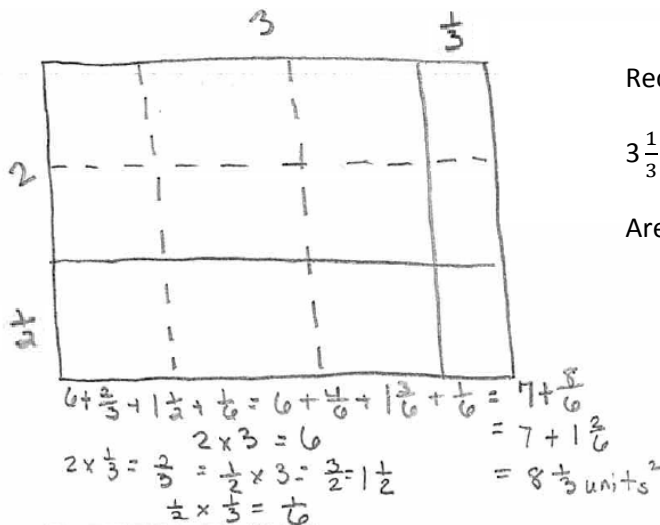
b. **Rectangle B:**

Rectangle B is

$2\frac{1}{2}$ units long \times $\frac{3}{4}$ unit wide

Area = _____ units²

c. **Rectangle C:**



Rectangle C is

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

Area = _____ units²



d. **Rectangle D:**

Rectangle D is

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

Area = _____ units²

2. A square has a perimeter of 25 inches. What is the area of the square?