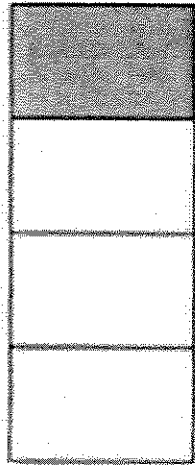


Name Student A

Rectangle F is divided into 4 equal areas, as shown.

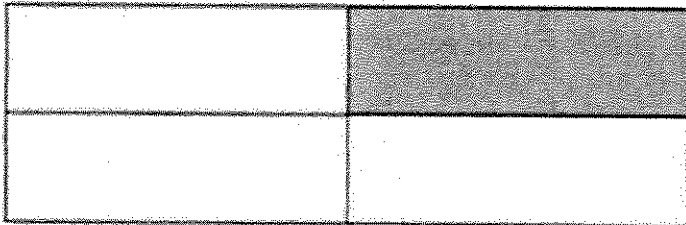


Rectangle F

$\frac{1}{4}$

What fraction is represented by the shaded area of Rectangle F? _____

Rectangle G is divided into 4 equal areas, as shown.



Rectangle G

$\frac{1}{4}$

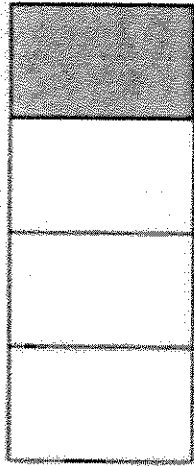
What fraction is represented by the shaded area of Rectangle G? _____

Is the shaded area of Rectangle F equal to the shaded area of Rectangle G? Explain your thinking. Use what you know about the **area** of Rectangle F and Rectangle G to explain.

G is bigger because it is larger

Name Student B

Rectangle F is divided into 4 equal areas, as shown.

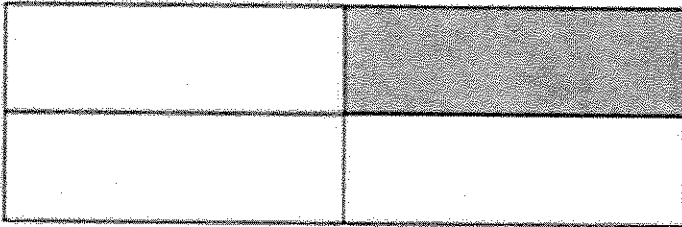


Rectangle F

$\frac{1}{4}$

What fraction is represented by the shaded area of Rectangle F? _____

Rectangle G is divided into 4 equal areas, as shown.



Rectangle G

$\frac{1}{4}$

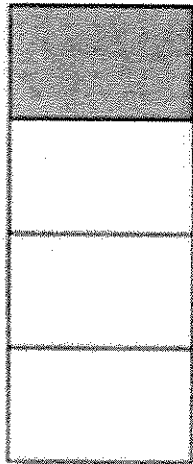
What fraction is represented by the shaded area of Rectangle G? _____

Is the shaded area of Rectangle F equal to the shaded area of Rectangle G? Explain your thinking. Use what you know about the area of Rectangle F and Rectangle G to explain.

G has more area, so $\frac{1}{4}$ of G is larger than $\frac{1}{4}$ of F

Name Student C

Rectangle F is divided into 4 equal areas, as shown.

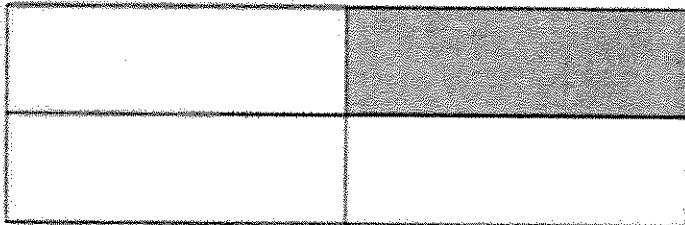


Rectangle F

What fraction is represented by the shaded area of Rectangle F?

$\frac{1}{4}$

Rectangle G is divided into 4 equal areas, as shown.



Rectangle G

What fraction is represented by the shaded area of Rectangle G?

$\frac{1}{4}$

Is the shaded area of Rectangle F equal to the shaded area of Rectangle G? Explain your thinking. Use what you know about the area of Rectangle F and Rectangle G to explain.

F and G have the same number

Name Student A

Date _____

What fraction of the rectangle below is shaded? $\frac{2}{4}$

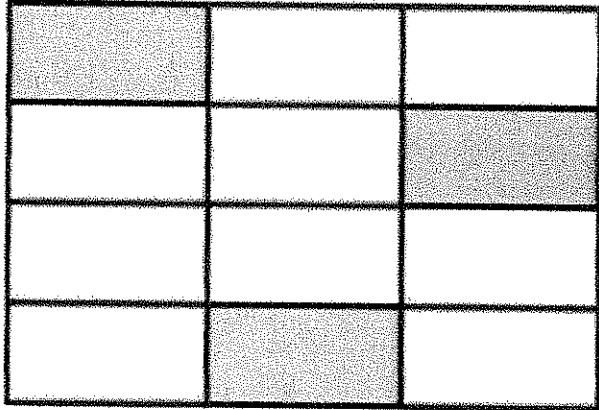
1	2	3
4	5	6
7	8	9
10	11	12

Laura says that $\frac{1}{4}$ of the rectangle is shaded. Do you think she is correct, explain why or why not by using the picture?

Name Student B

Date _____

What fraction of the rectangle below is shaded? $\frac{1}{4}$



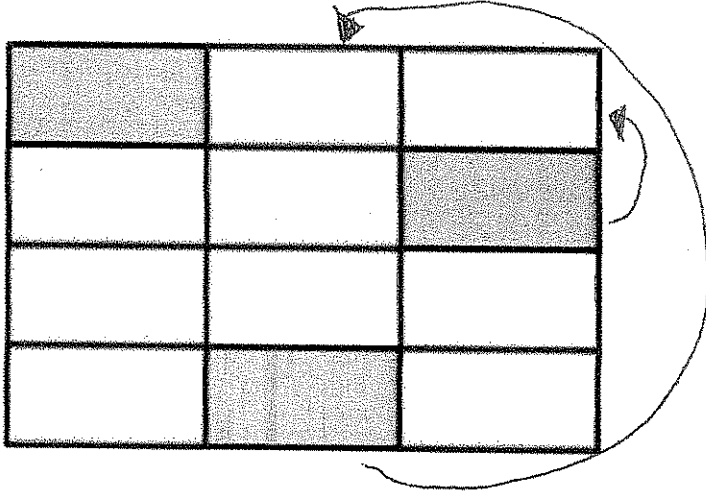
Laura says that $\frac{1}{4}$ of the rectangle is shaded. Do you think she is correct, explain why or why not by using the picture?

Laura is right. $\frac{3}{12} = \frac{1}{4}$

Name Student C

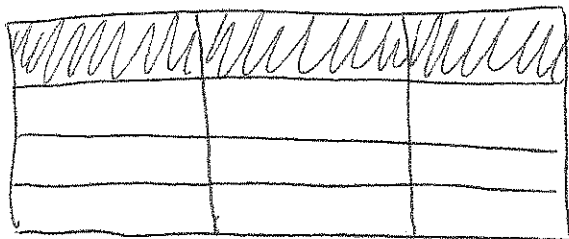
Date _____

What fraction of the rectangle below is shaded? $\frac{3}{12} = \frac{1}{4}$



Laura says that $\frac{1}{4}$ of the rectangle is shaded. Do you think she is correct, explain why or why not by using the picture?

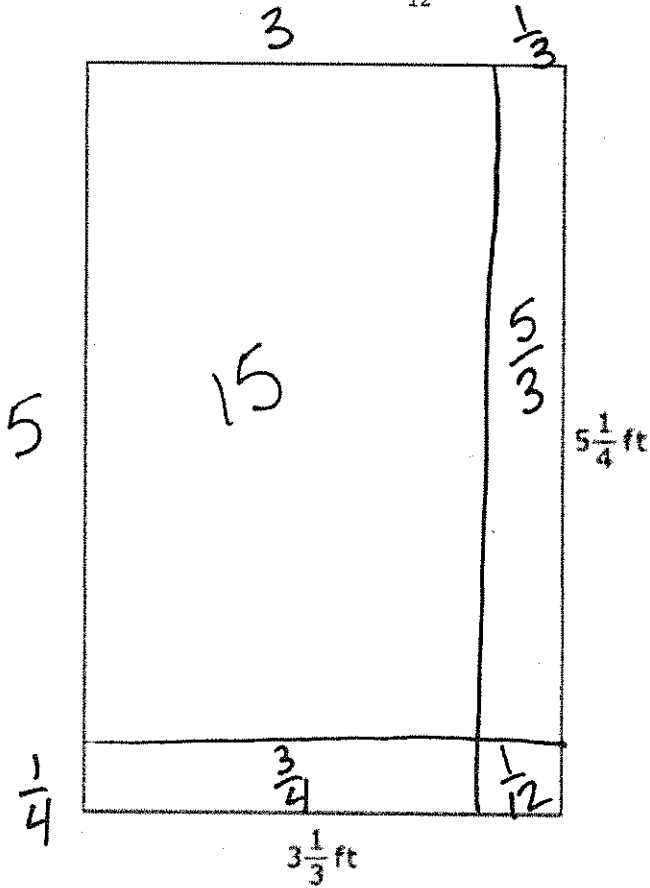
Laura is right. There are 3 boxes out of 12 boxes shaded, which is $\frac{3}{12}$. If you rearrange the pieces you can see that $\frac{3}{12}$ is equal to $\frac{1}{4}$ because they have the same area.



1 out of 4 rows are shaded.

Name Student A

Rob is calculating the area of this rectangle. His strategy is to multiply the whole numbers first and then multiply the fractions. Since $3 \times 5 = 15$ and $\frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$, he concludes that the area of the rectangle is $15\frac{1}{12}$ square feet.

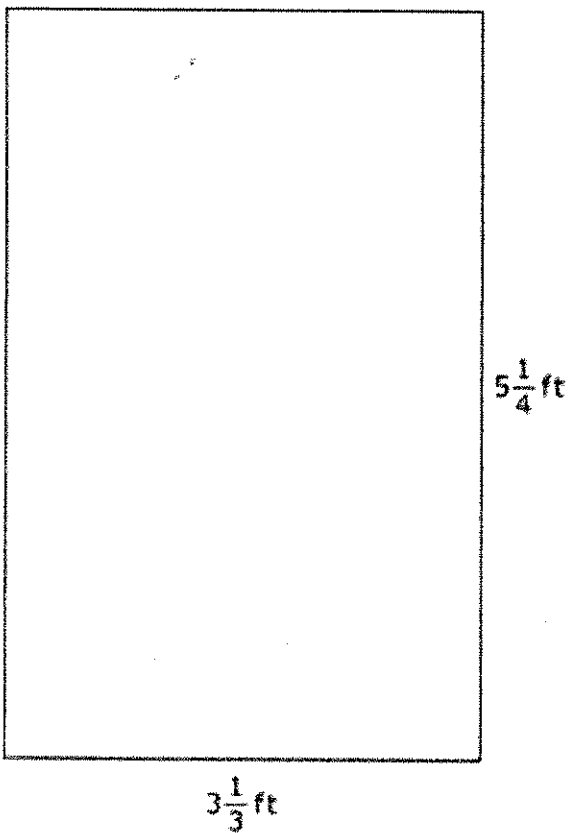


Determine the area of the rectangle. Decide if Rob's strategy is correct. Justify your thinking.

$15 + \frac{5}{3} + \frac{3}{4} + \frac{1}{12}$ $ \begin{array}{r} \frac{5}{3} \quad \frac{20}{12} \\ + \frac{3}{4} \quad \frac{9}{12} \\ \hline \frac{29}{12} \end{array} $	$+ \frac{1}{12}$ $ \begin{array}{r} \frac{29}{12} \\ + \frac{1}{12} \\ \hline \frac{30}{12} = 2\frac{6}{12} \end{array} $	$ \begin{array}{r} 15 \\ + 2\frac{6}{12} \\ \hline 17\frac{6}{12} \end{array} $	<p>Rob is wrong, he forgot to multiply the whole numbers by the fractions</p>
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Name Student B

Rob is calculating the area of this rectangle. His strategy is to multiply the whole numbers first and then multiply the fractions. Since $3 \times 5 = 15$ and $\frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$, he concludes that the area of the rectangle is $15\frac{1}{12}$ square feet.



$$\begin{array}{r} 5\frac{1}{4} \\ \times 3\frac{1}{3} \\ \hline 1575 \\ 15750 \\ 157500 \\ \hline 174825 \end{array}$$

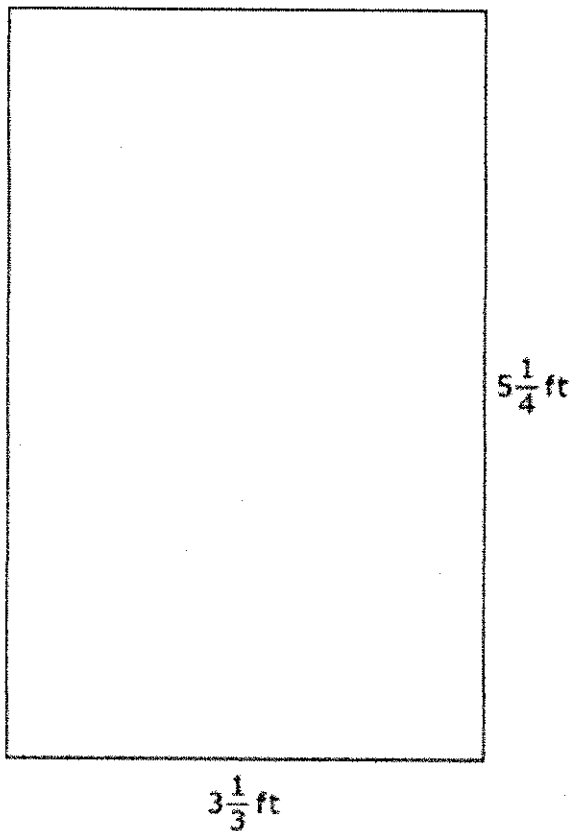
5.25
3.33

Determine the area of the rectangle. Decide if Rob's strategy is correct. Justify your thinking.

Rob is wrong

Name Student C

Rob is calculating the area of this rectangle. His strategy is to multiply the whole numbers first and then multiply the fractions. Since $3 \times 5 = 15$ and $\frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$, he concludes that the area of the rectangle is $15\frac{1}{12}$ square feet.



$$3 \times 5 = 15$$

$$\frac{3}{1} \times \frac{1}{4} = \frac{3}{4}$$

$$\frac{1}{3} \times \frac{5}{1} = \frac{5}{3}$$

$$\frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$$

$$\frac{3}{4} + \frac{5}{3} = \frac{8}{7}$$

$$15 + \frac{9}{19} = 15\frac{9}{19}$$

$$\frac{8}{7} + \frac{1}{12} = \frac{9}{19}$$

Determine the area of the rectangle. Decide if Rob's strategy is correct. Justify your thinking.

I got $15\frac{9}{19}$. Rob was close, but he forgot to multiply $3 \times \frac{1}{4}$ and $5 \times \frac{1}{3}$ so he was a little off.