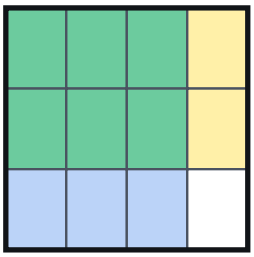
Name _____ Date _____

Multiplying Fractions

Example



The columns are coloured blue: $\frac{3}{4}$. The rows are coloured yellow: $\frac{2}{3}$.

Coloured twice (green) is $\frac{2}{3}$ of $\frac{3}{4}$: 6 of the 12 parts.

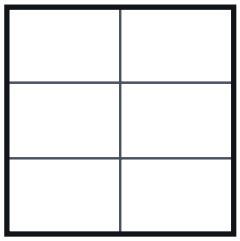
$$\frac{2}{3} \times \frac{3}{4} = \frac{2 \times 3}{3 \times 4} = \frac{6}{12} = \frac{1}{2}$$

Remember

Numerator times numerator, denominator times denominator. In the picture: the parts coloured twice out of all the parts.

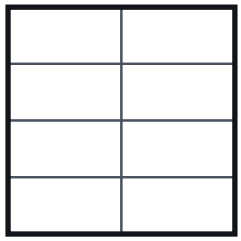
1 ON YOUR OWN Colour the columns blue and the rows yellow. Count the parts coloured twice and write the product.

a)



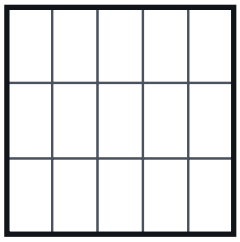
$$\frac{1}{3} \times \frac{1}{2} = \frac{\square}{\square}$$

b)



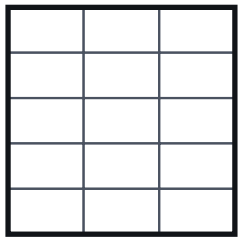
$$\frac{3}{4} \times \frac{1}{2} = \frac{\square}{\square}$$

c)



$$\frac{2}{3} \times \frac{2}{5} = \frac{\square}{\square}$$

d)



$$\frac{3}{5} \times \frac{2}{3} = \frac{\square}{\square}$$

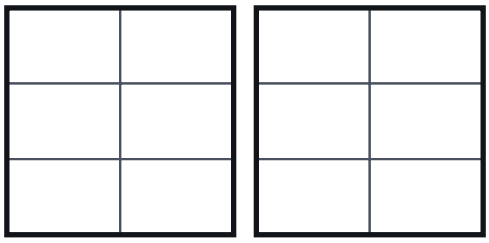
The Fraction Rectangles app · otooly.com/fraction-rectangles

You can split the rectangles into columns and rows and check your drawing.

Names (pair) _____ Date _____

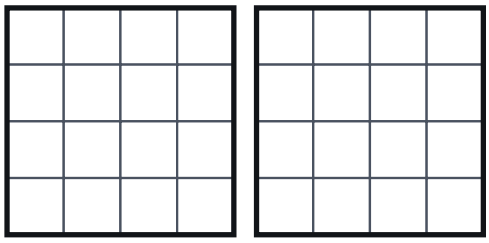
2 ON YOUR OWN **More than one whole.** Each square is one whole. Colour the columns blue and the rows yellow, then write the product.

a)



$\frac{1}{3} \times \frac{3}{2} = \frac{\square}{\square}$

b)



$\frac{3}{4} \times \frac{5}{4} = \frac{\square}{\square}$

3 IN PAIRS **Cancel, then multiply.** One student cancels, the other multiplies and checks that the answer is in its simplest form. Swap roles in every row.

$\frac{2}{3} \times \frac{9}{10} = \frac{\square}{\square} = \frac{\square}{\square}$

$\frac{3}{4} \times \frac{8}{9} = \frac{\square}{\square} = \frac{\square}{\square}$

$\frac{5}{6} \times \frac{3}{10} = \frac{\square}{\square} = \frac{\square}{\square}$

$\frac{4}{5} \times \frac{15}{8} = \frac{\square}{\square} = \frac{\square}{\square}$

$\frac{7}{8} \times \frac{4}{21} = \frac{\square}{\square} = \frac{\square}{\square}$

$\frac{9}{10} \times \frac{5}{6} = \frac{\square}{\square} = \frac{\square}{\square}$

★ ON YOUR OWN **Exit card.** $\frac{3}{4} \times \frac{2}{9} = \frac{\square}{\square}$