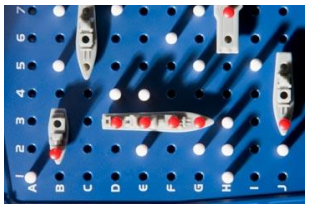


Dividing Fractions Using a Mod

When dividing fractions using a model, you will need to make two identical arrays.

$$\frac{1}{2} \div \frac{1}{4} =$$

Divide in halves horizontally

Divide in fourths vertically

Color in half of the rectangle

Color in a fourth of the rectangle.

Now divide the rectangles so that both arrays have the same area.

How many of the 'boats' on the right will fit into the ocean on the left? _____

Let's try again!

$$\frac{2}{3} \div \frac{1}{6} =$$

Divide in thirds horizontally

Divide in sixths vertically

Color in $\frac{2}{3}$ of the rectangle

Color in $\frac{1}{6}$ of the rectangle.

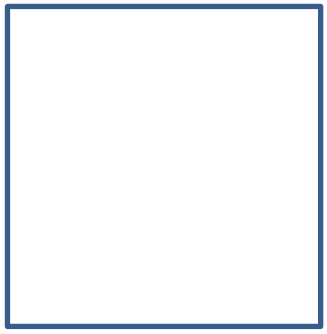
Now divide the rectangles so that both arrays have the same area.

How many of the 'boats' on the right will fit into the ocean on the left? _____

Let's see what happens when only part of a boat on the right fits into the ocean.

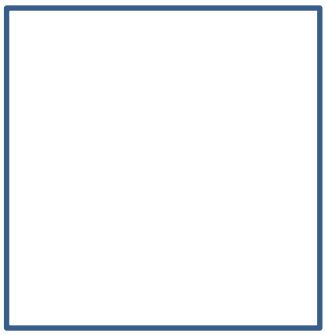
$$\frac{3}{4} \div \frac{1}{3} =$$

Divide in fourths horizontally



Color in $\frac{3}{4}$ of the rectangle

Divide in thirds vertically



Color in $\frac{1}{3}$ of the rectangle.

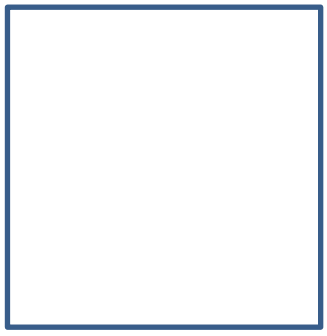
Now divide the rectangles so that both arrays have the same area.

How many whole 'boats' on the right will fit into the ocean on the left? _____

How much of another boat will fit in the remaining space? _____ Quotient: _____

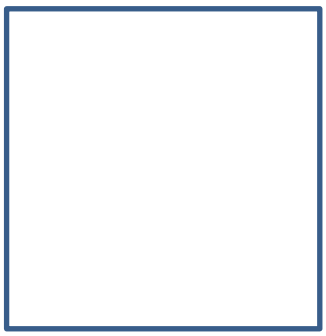
$$\frac{1}{5} \div \frac{1}{2} =$$

Divide in fifths horizontally



Color in $\frac{1}{5}$ of the rectangle

Divide in halves vertically



Color in $\frac{1}{2}$ of the rectangle.

Now divide the rectangles so that both arrays have the same area.

How many whole 'boats' on the right will fit into the ocean on the left? _____

How much of another boat will fit in the remaining space? _____ Quotient: _____