

Name _____ Per _____

Dividing Fractions Using Models

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



Color in half of the rectangle

Divide in fourths vertically



Color in a fourth of the rectangle.

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

Each box has been divided into _____ equal parts.

How many equal parts do you have (box on the left): _____

How many equal parts are you dividing by (box on the right): _____

Write a math sentence: _____

What is your quotient? _____

Let's try again!

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

Divide in thirds horizontally



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

Divide in sixths vertically



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

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

Each box has been divided into _____ equal parts.

How many equal parts do you have (box on the left): _____

How many equal parts are you dividing by (box on the right): _____

Write a math sentence: _____

What is your quotient? _____

Let's see what happens when you're dividing by a larger number than what you have:

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

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.

Each box has been divided into _____ equal parts.

How many equal parts do you have (box on the left): _____

How many equal parts are you dividing by (box on the right): _____

Write a math sentence: _____

What is your quotient? _____

Let's see what happens when you're dividing by a larger number than what you have:

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

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.

Each box has been divided into _____ equal parts.

How many equal parts do you have (box on the left): _____

How many equal parts are you dividing by (box on the right): _____

Write a math sentence: _____

What is your quotient? _____