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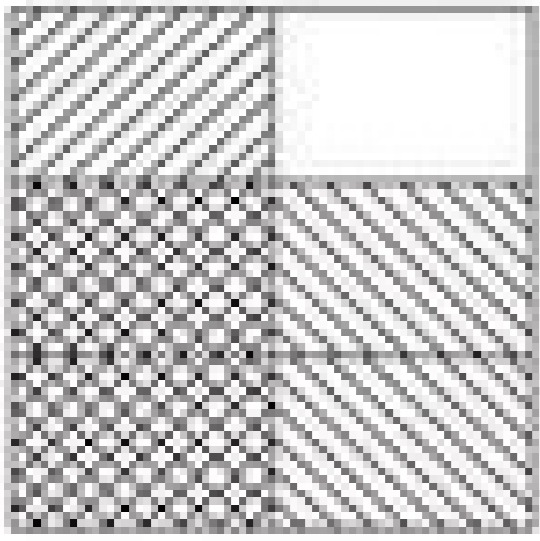
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## Shade It In! Multiply Fractions with Area Models

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

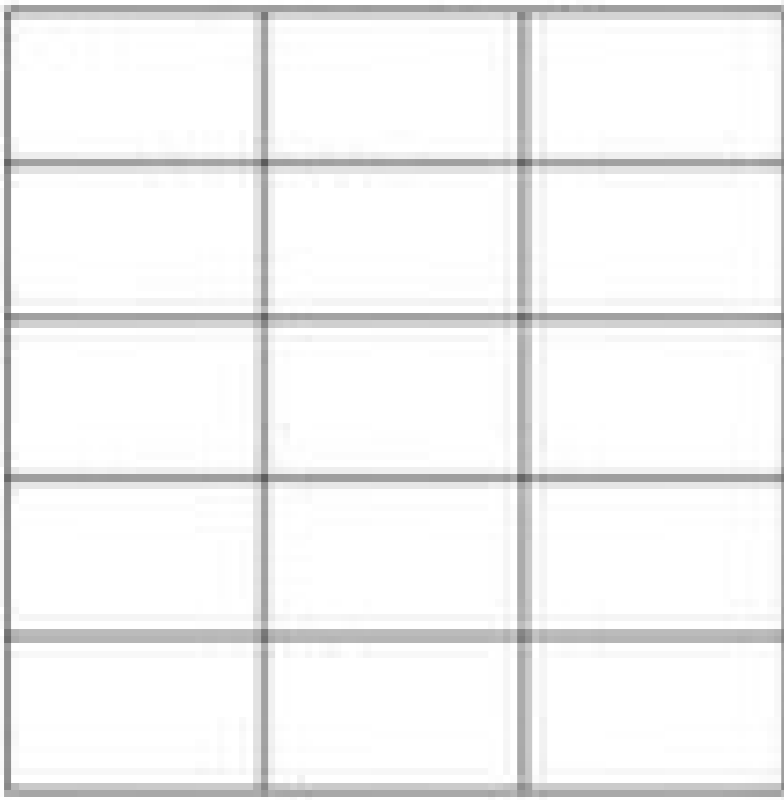


**Steps:**

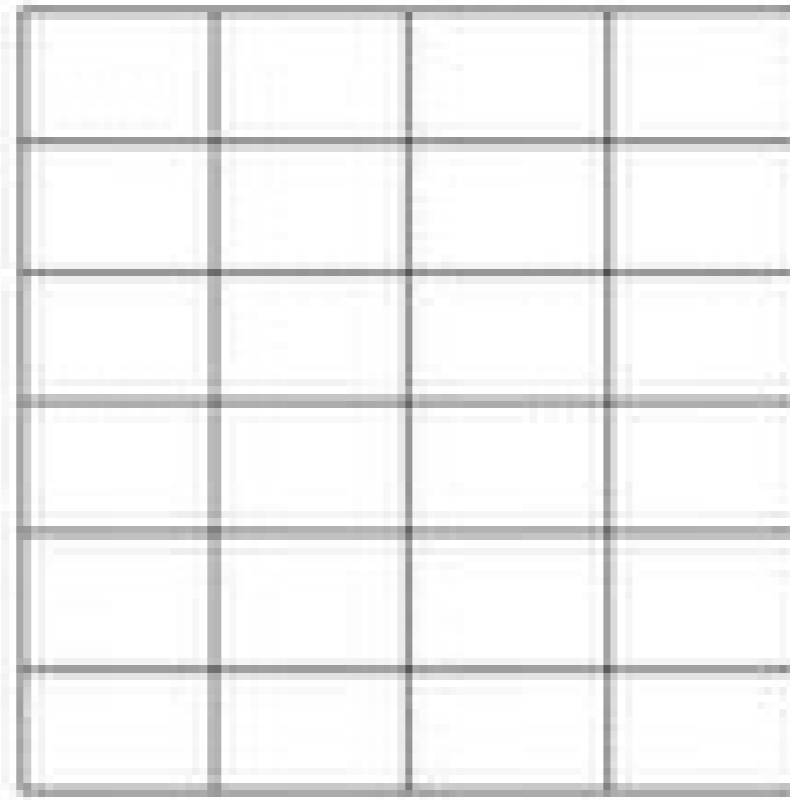
1. Draw a square model that represents one whole.
2. Divide the model with vertical lines to show one of the fractions you are multiplying (in this example, it is divided into halves).
3. Shade in the fraction.
4. Divide the same model with horizontal lines to show the other fraction you are multiplying (in this example, it is divided into thirds).
5. Shade in the fraction.
6. Count the total parts in the model. This is the denominator in the answer. In this example, there are six total parts.
7. Count the parts where the shaded portions overlap. This is the numerator in the answer. In this example, two parts have overlapping shading.
8. Simplify the answer. In this example,  $\frac{2}{6}$  can be simplified to  $\frac{1}{3}$ .

Shade in the models to solve each problem below.

1.  $\frac{4}{5} \times \frac{1}{3} =$  \_\_\_\_\_



2.  $\frac{1}{4} \times \frac{2}{6} =$  \_\_\_\_\_



## Three Ways to Divide Fractions

**Math Question: What is  $\frac{3}{4} \div \frac{2}{3}$  ?**

Area Model	Number Lines	Algorithm
		$\frac{3}{4} \div \frac{2}{3} =$ $\frac{3}{4} \times \frac{3}{2} = \frac{9}{8}$
<p><b>Answer</b></p> $1 \frac{1}{8}$	<p><b>Answer</b></p> $1 \frac{1}{8}$	<p><b>Answer</b></p> $\frac{9}{8} = 1 \frac{1}{8}$

# Multiply two fractions using models - I

	$\frac{2}{5} \times \frac{3}{4} =$	<input type="text"/> <input type="text"/>
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Student Name: \_\_\_\_\_ Score: \_\_\_\_\_

**Area Model** Sheet 1

Use the illustration to write the multiplication sentence (Reducing not required).

**Example:** This is a square with side length 1 unit. Each cell has dimension  $\frac{1}{2} \times \frac{1}{3}$ . Shaded region forms a rectangle with length  $3 \times \frac{1}{3} = \frac{3}{3}$  and width  $\frac{2}{3}$ . Multiplication sentence to represent the shaded region is  $\frac{3}{3} \times \frac{2}{3} =$

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

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**Dividing Fractions**

Example:  $\frac{2}{3} \div \frac{1}{2}$

How many  $\frac{1}{2}$ 's fit into  $\frac{2}{3}$ ?

Area model showing  $\frac{2}{3} \div \frac{1}{2}$  resulting in  $1 \frac{1}{3}$ .

Dividing fractions using area models. Dividing using area models worksheets. Dividing fractions with area models. Dividing fractions using area models worksheet.

When such questions ask us, we need to reverse the fraction, multiply it by the entire number, and simplify the product. I have 42 years with a Master in Mathematics for teaching it and it never passed through my head. Become a patre of patreon or donate through Paypal. Explore all digital fraction activities here. Fraction Division à € Mixed Review à € CCSS: 5.NF. 6.NS page 2 Page 3 Fractions Division is one of those topics that I find myself needing refreshing from time to time. When creating a common denominator, it will be easier to see how many will fit. This Tweet: After sharing the Tweet of Howie Hua in our Facebook group of Visual Mathematics, he reminded me of the division of fractions. Create New Sheet One Atta Time Flash Cards Share Remote Learning Select a Word Sheet Version 1 Version 2 Version 3 Version 4 Version 5 Version 6 Version 8 Version 9 Version 10 Grab à € Em All Scout around our worksheets Printable on the division of fractions and entire numbers for practical materials, evaluation resources and well-investigated words problems on the division of fractions and entire numbers. But why now? So all of our 2/3 can fit 4/5, more an additional 2. Example 3:  $(4/5) \div (2/3)$ . Sometimes Create a common denominator with only columns would be too complicated to be useful, so we can create a grid to show it in place. Dividing Unit Fractions (Visual) Worksheet 5NF7Dividing unit fractions (visual) à € Each worksheet has 12 problems using a visual model to divide unit fractions between entire numbers. When creating the Common Denominator 6, we can see that the 3 green bars fit into the space occupied by our blue bars. There's room for one more! So all the green bars (1 integer) can fit into the blue space and 1 bar beyond the 3 (1/3). Personally I like to bring it back to integers: if 10 divided by 2 is 5, then half of 10 is 5. If you want to link the Straight to this example of a fraction, here is the way it can be done: We can see that the numerator of the second fraction becomes the denominator of our answer. Watch the kids gathering momentum with our printable worksheets to split fractions using visual models and operating the split fractions at full speed! A question like " $3 \div \frac{1}{5} = ?$ " Technically it means "How many groups of  $\frac{1}{5}$  can fit into 3?" Visual tools next to each problem, help young people to master the subject quickly and effortlessly. And full disclosure, I had never considered dividing through something to do. With  $(4/5) \div (2/3)$ , our common denominator is 15, so we can create a grid of 15 spaces. Normally, I'm not too worried about how I feel, but I appreciated other teachers in the group admitting they never thought about this, either. Dividing Integers by Mixed Numbers How quickly can you divide an integer by a mixed number? Stay, change, flip. Fraction splitting was one of those algorithms, and after a few more "redo" written on the top of my paper, I finally handed over a paper that could really be qualified. Like anything in math, there's more than one good way to make a connection. This is because we are asking, "How many of the second fraction of the numerator (bars) can we fit into the numerator of the first fraction [after creating a common denominator]?" Example 2:  $(1/2) \div (2/2)$  3 This example is like Example 1, we just changed the locations of the fractions, which is fun because it reinforces that division is not commutative. Then  $(1/2) \div (2/3) = (3/4)$ . We can multiply by a reciprocal for division. Needless to say, it was a kind of tax. It allowed us all to learn something new together, and I when this happens. So 10 divided by 2 is  $1/2$  of 10. In our first example  $(2/3) \div (1/2)$ , we are asking, "How much does  $1/2$  fit into  $2/3$ ?" It would be easier to answer this question if our fractions broke into the same number of parts. Take the of the fraction  $\frac{2}{3}$  the unit and multiply all the number you have with the given integer for the quotient. À The direct 5th grade, 6th grade and 7th grade to divide mixed fractions and numbers by whole numbers and whole numbers by mixed fractions and numbers and complete each exercise to the best of its ability! Access the free worksheets to split fractions and whole numbers instantly. "Why?" Dividing integers by unit fractions does not stop at the various steps involved in dividing integers by unit fractions. In a graduate class, we had to write papers in the various algorithms taught in mathematics and why they work. As a  $(2/3) \div (1/2) = 1$  and  $1/3$ . Here is a video that explains: the connection to "Keep-change-flip". When I post this video on My Instagram, a professor pressured me to connect it with the standard algorithm "Keep Change-Flip" (AHEM, Multiplying by the reciprocal). Here you go! Review the topic by dividing all types of mixed fractions and numbers by whole numbers and revâ€. Equipped with the answer key, our PDF resources motivate beginners to divide the unit fractions by whole numbers and proceed to divide whole numbers by unit fractions. I hope to answer that with the 3 examples in this post. We can always do this, I only prefer columns when there is the opportunity to use them because I feel they are easier to see. Divide integers by fractions of the unit using models Ignores the process of dividing integers by fractions of the unit. For me, it's definitely one of those "don't use, lose" situations. Take the recâproco of the whole number and multiply the fracâ of the unit as obtained with the fracâ of the given unit to find the quotient. Then, we can see that  $(4/5) \div (2/3) =$  and  $2/10$ . À This is a video that explains this example: Summary: The three fractions of the fraction division Examples of this publication are included in my sixth. sixth. Math Word Wall à print n and digital. Our free worksheets on the division of fractions with visual models are suitable for 5th and 6th grade students. Dividing whole numbers by fractions What is 5 divided by seven nines? To experience this firsthand, set the timer and troubleshoot using the 4-step process: convert, invest, multiply and simplify. Example 1:  $(2/3) \div (1/2)$  Divide a question, "How many of these fit into that?" By 10 divided by 2, for example, we're asking, "How many 2 fit into 10?" We ask the same question when we divide fractions, it's a little harder to see. 4/5 occupies 12 of these spaces and 2/3 occupies 10 of these spaces. Tell them to first convert the mixed numbers to fractions and proceed as usual. Unique pdfs with models help visualize the division of unit fractions by integer numbers and vice versa. Split mixed numbers by whole numbers Encourage grade 6 and grade 7 students to divide mixed numbers by whole numbers with this set of pdf worksheets. So this post came from me refreshing my memory of the division of fractions. Split fractions by integer numbers Change a gear with this amount of printable worksheets on the division of fractions and integer numbers for grade 5 and grade 6 and interpret divide appropriate fractions and incorrect fractions by integer numbers. À Do you want to help support the site and remove ads? Here, the answer is 45/7 or 6 3/7. It absorbs the fact that the unit fractions when put together give the integer number, and count the unit fractions in the strips to get the answer. In our second example  $(1/2) \div (2/3)$ , we are asking, "How many 2/3s fit in 1/2?" By creating a common denominator, we can easily see that 3 of the 4 blue bars fit in space by the green bars. Dividing Unit Fractions by Integers Make steady progress solving problems



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