

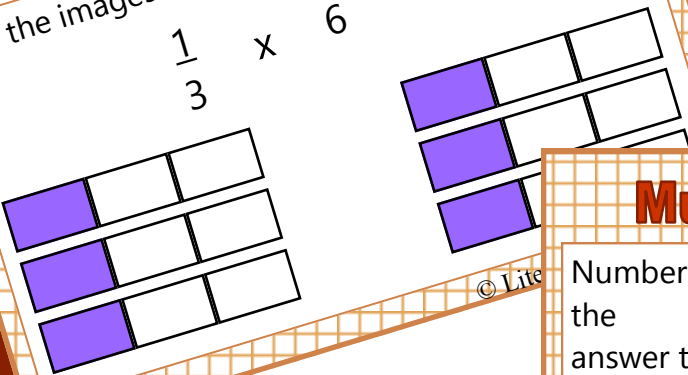
Multiplying Fractions

Task Cards

These Teach and Review

Multiplying Fractions Task Card 3

Use the images to solve the math problem.

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


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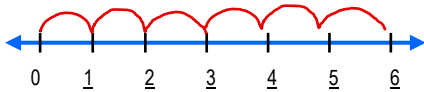
Multiplying Fractions Task Card 21

Carla saw $\frac{1}{2}$ lb of a package of flour. She used $\frac{3}{4}$ of the package to make cookies. How much of

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Multiplying Fractions Task Card 5

Number lines can also be used to determine the answer to fraction questions. This shows $\frac{1}{2} \times 6 = 3$.



Explanation
This number line shows six groups of half pieces. Altogether, they make three

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Thank You

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How to Use

These activity cards are a great way to help students understand what it means to multiply fractions as well as practice this skill. Use them as a math center, as a test prep resource, or give a box to a student that needs extra review.

How to Assemble

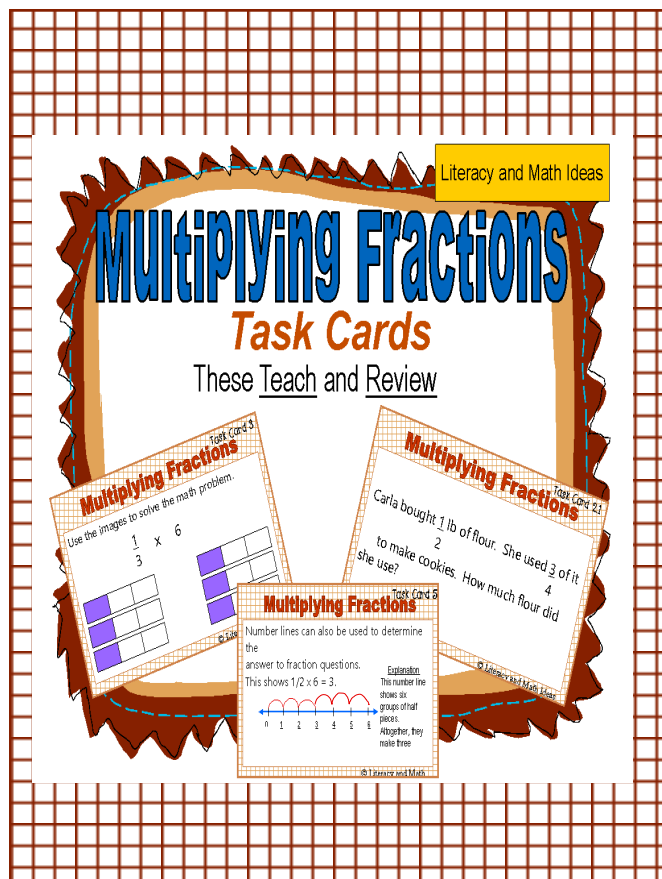
Printing Directions:

Print the box in color on cardstock paper. Print the activity cards onto regular printer paper and laminate. Or, print them on any type of cardstock paper. Next, cut the cards along the dark outer lines. A black and white version of the box has also been included.

How to Assemble

Cut along the outer lines keeping the flattened box as one whole piece. Fold along the dark lines. There are four small tabs that have slashed lines. While holding the flat box correctly facing you, cut only the sides of the slashed lines to create tabs that can be folded into the box once assembly is complete.

Glue the side to connect the front and back of the box. Glue the bottom tabs and fold into the bottom of the box to keep it secure. Tuck the top of the box in once the cards have been placed inside.



Multiplying Fractions Task Cards

These task cards are a great resource for learning about how to multiply fractions. Use them alone or with a partner.

Multiplying Fractions

Task Card 1

When you multiply a number by a fraction, you are actually doing repeated addition.

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

This math expression means add a half six times.

Use repeated addition of the fraction to find the answer. Look at the answer. The shaded pieces were combined. $\frac{1}{2} \times 6 = 3$



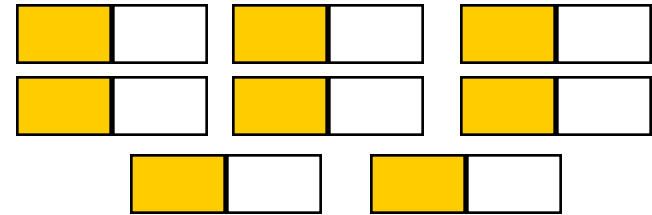
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Multiplying Fractions

Task Card 2

Use the images to solve the math problem.

$$\frac{1}{2} \times 8$$



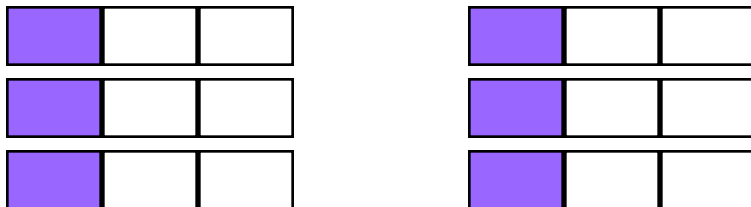
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Multiplying Fractions

Task Card 3

Use the images to solve the math problem.

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



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Multiplying Fractions

Task Card 4

Solve the math problem.

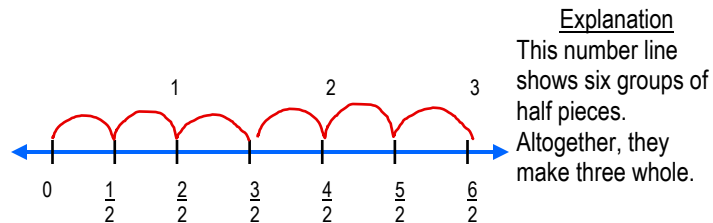
$$\frac{2}{3} \times 3$$



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Multiplying Fractions

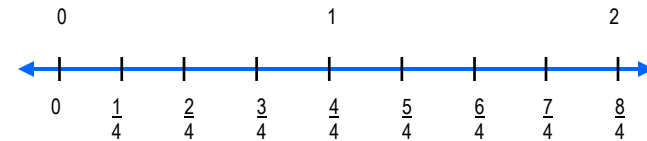
Number lines can also be used to determine the answer to fraction questions. This shows $\frac{1}{2} \times 6 = 3$.



Multiplying Fractions

Draw this number line on paper. Draw lines and use it to solve this math problem.

$$\frac{1}{4} \times 8$$



Multiplying Fractions

So far, we have multiplied whole numbers by fractions using illustrations. Now we will investigate how to determine the answer without illustrations.

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

Step 1

Rewrite the 3 as a fraction. Write a 1 as the denominator.

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

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

Step 2

Multiply the numerators to each other. Multiply the denominators to each other.

$$\frac{3}{5}$$

Step 3

$\frac{3}{5}$ is in simplest form. When a fraction is not in simplest form, you must divide the numerator and denominator by their greatest common factor.

Multiplying Fractions

Use any method to solve.

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

Task Card 9

Multiplying Fractions

Solve the math problem.

$$\frac{2}{7} \times 2$$

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Task Card 10

Multiplying Fractions

Solve the math problem.

$$\frac{3}{10} \times 3$$

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Task Card 11

Multiplying Fractions

Solve the math problem.

$$\frac{4}{11} \times 2$$

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Task Card 12

Multiplying Fractions

Solve the math problem.

$$\frac{1}{7} \times 4$$

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Multiplying Fractions

Now, let us apply what we have learned to word problems.

Jeff reached into a treat bag and found four halves of cookies. Altogether, how many cookies did he find?

This can be written as $4 \times \frac{1}{2}$ or as $\frac{1}{2} \times 4$

The answer is 2 cookies.

Multiplying Fractions

The students ate half of four different types of pizzas. In all, how many pizzas were eaten?

Multiplying Fractions

There were 8 different bags of cookies at the party. The students ate one-fourth of each bag. Each bag contained the same number of cookies. How many bags of cookies did they eat in all?

Multiplying Fractions

There are two packages of stickers. Both packages have the same number of stickers. Greta used $\frac{1}{2}$ of each package. What is the total amount of packages that she used?

Multiplying Fractions

Task Card 17

We have looked at strategies for multiplying a whole number by a fraction. Now we will investigate what it means to multiply a fraction by a fraction. We will also look at useful strategies for solving these types of problems.

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

What does 1/2 of 1/4 mean? Explain. (continued on card18)

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Multiplying Fractions

Task Card 18

1/2 of a 1/4 actually means to take a part of something. In this case, you will take a fourth of a half.

1. Start with your 1/2 piece. →



2. Since, you are taking 1/4 of 1/2, break your 1/2 into four pieces. (The other half was cut into 4 pieces too.)



3. Take only one of the pieces since you are taking 1/4 of the half.



The answer is 1/8. The reason why is because 1/2 of 1/4 is out of the whole figure which happens to be 8 pieces.

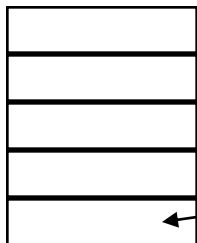
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Multiplying Fractions

Task Card 19

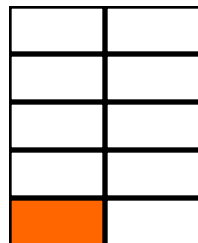
Trina used 1/5 of a piece of construction paper. She drew pictures on 1/2 of the piece paper. How much of the paper did she use? *The answer is 1/10 (one-tenth).*

First Do This



It is cut into 5 pieces. We will look at 1 out of the 5 regions of the shape. Since it says 1/5.

Next Do This



Since the problem says 1/2 of 1/5, a line was placed into the entire rectangle. This is because we focus on 1/2 of the 1/5 region

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Multiplying Fractions

Task Card 20

Draw a diagram to help you solve the word problem. Look at cards 18 and 19 again to guide you. They show step by step how a fraction diagram could be drawn as well as what it means to multiply a fraction by a fraction.

There was 1/3 of a pitcher of apple juice left. Kevin drank 1/6 of the remaining juice. How much of the total juice did he drink?

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Task Card 21

Multiplying Fractions

There was $\frac{1}{2}$ lb of a package of flour. Carla used $\frac{3}{4}$ of it to make cookies. How much of the total package did she use?

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Task Card 22

Multiplying Fractions

Jeff saw $\frac{4}{5}$ of a bag of soil. He used $\frac{1}{3}$ of it for his flower pot. How much of the total package did he use?

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Task Card 23

Multiplying Fractions

Mr. Kemp uses $\frac{3}{4}$ of his land for his vegetable garden. $\frac{1}{5}$ of the land is used to grow tomatoes. How much of the land is used to grow tomatoes?

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Task Card 24

Multiplying Fractions

Multiplication can be used instead of drawings to multiply a fraction with another fraction. Multiply the numerators. Then multiply the denominators. If the product is not in simplest form, reduce.

$$\frac{3}{4} \times \frac{2}{3} = \frac{6}{12} \xrightarrow[\text{Reduce } 6/12]{\text{red arrow}} \frac{1}{2}$$

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Task Card 25

Multiplying Fractions

Find the product.

$$\frac{3}{9} \times \frac{2}{5}$$

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Task Card 26

Multiplying Fractions

Find the product.

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

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Task Card 27

Multiplying Fractions

Find the product.

$$\frac{2}{3} \times \frac{7}{8}$$

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Task Card 28

Multiplying Fractions

Find the product.

$$\frac{1}{4} \times \frac{2}{8}$$

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Task Card 29

Multiplying Fractions

Find the product.

$$\frac{1}{4} \times \frac{5}{8}$$

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Task Card 30

Multiplying Fractions

Find the product.

$$\frac{3}{9} \times \frac{1}{2}$$

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Task Card 31

Multiplying Fractions

Find the product.

$$\frac{4}{9} \times \frac{5}{6}$$

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Task Card 32

Multiplying Fractions

Find the product.

$$\frac{1}{7} \times \frac{3}{4}$$

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Multiply Fractions Task Cards Response Form

Student Name _____

Directions: Write the answers to each question next to the card number.

Card 1		Card 17	
Card 2		Card 18	
Card 3		Card 19	
Card 4		Card 20	
Card 5		Card 21	
Card 6		Card 22	
Card 7		Card 23	
Card 8		Card 24	
Card 9		Card 25	
Card 10		Card 26	
Card 11		Card 27	
Card 12		Card 28	
Card 13		Card 29	
Card 14		Card 30	
Card 15		Card 31	
Card 16		Card 32	

Multiply Fractions Task Cards Answer Key

Student Name _____

Directions: Write the answers to each question next to the card number.

Card 1	Guided Practice	Card 17	Take half of one-fourth.
Card 2	4	Card 18	Guided Practice
Card 3	2	Card 19	Guided Practice
Card 4	2	Card 20	$1/18$
Card 5	Guided Practice	Card 21	$3/8$
Card 6	2	Card 22	$4/15$
Card 7	Guided Practice	Card 23	$3/20$
Card 8	$2/3$	Card 24	Guided Practice
Card 9	$4/7$	Card 25	$6/45$
Card 10	$9/10$	Card 26	$1/9$
Card 11	$8/11$	Card 27	$14/24$ reduce to $7/12$
Card 12	$4/7$	Card 28	$3/32$ reduce to $1/16$
Card 13	Guided Practice	Card 29	$5/32$
Card 14	2	Card 30	$3/18$ reduces to $1/6$
Card 15	2	Card 31	$10/27$
Card 16	one package	Card 32	$3/28$