

NAME: _____



Purpose

To understand fraction multiplication and make sense of the product

Math Words

product

The product of 5 and 7 is 35, which is the amount you get when you multiply.

factor

In a multiplication problem like $6 \cdot 3 = 18$, the 6 and 3 are called factors.

of

To find two thirds of one half, multiply two thirds times one half.

$$\frac{2}{3} \text{ of } \frac{1}{2} = \frac{2}{3} \cdot \frac{1}{2}$$

Starter Problem

Find the product. Think about the meaning.

$$\frac{1}{2} \cdot \frac{1}{3} = \underline{\hspace{2cm}}$$

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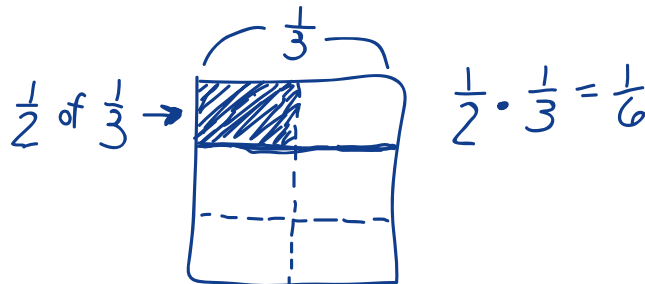
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Student Thinking



Rose

Multiplying $\frac{1}{2} \cdot \frac{1}{3}$ means $\frac{1}{2}$ of $\frac{1}{3}$. I drew $\frac{1}{3}$ of a square and took $\frac{1}{2}$ of it. I made equal parts of the whole in my mind so I could name it. It's $\frac{2}{6}$. I could also multiply the numerators and denominators to get the product.



Phillip

I multiplied the numerators and denominators. 1 times 1 is 2, and 2 times 3 is 5. It's $\frac{2}{5}$.

Pitfall

$$\frac{1}{2} \cdot \frac{1}{3} = \frac{2}{5}$$

Things to Remember

- * _____
- * _____



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Our Turn

Write the product as a fraction in lowest terms.

1. $\frac{1}{2} \cdot \frac{3}{4} =$ _____

2. $\frac{5}{6} \cdot \frac{2}{3} =$ _____

3. What is $\frac{1}{4}$ of $\frac{3}{8}$? _____

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My Turn

Write the product as a fraction in lowest terms.

1. $\frac{1}{5} \cdot \frac{3}{4} =$ _____

2. $\frac{3}{8} \cdot \frac{2}{3} =$ _____

3. What is $\frac{2}{5}$ of $\frac{1}{2}$? _____

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Multiple Choice Mini Lesson

Fill in the circle next to the answer you choose.

1. $\frac{1}{4} \cdot \frac{1}{3} =$ _____

☐ $2\frac{1}{2}$

☐ $\frac{2}{7}$

☐ $\frac{1}{7}$

☐ $\frac{1}{12}$

2. $\frac{1}{3} \cdot \frac{1}{4} =$ _____

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Writing Task Mini Lesson

Explain how you know that $\frac{3}{4} \cdot \frac{1}{2}$ is equal to $\frac{3}{8}$. You may draw a picture on the back to help you explain.



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