

NAME: \_\_\_\_\_



## Purpose

To understand decimal multiplication  
and make sense of the product

## Math Words

**product**

If you multiply 8 times 4, the product is 32.

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**factor**

In the multiplication problem  $4 \times 9 = 36$ ,  
4 and 9 are called factors.

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**of**

To find 2 tenths of 4 hundredths, multiply 2 tenths  
times 4 hundredths.

$$0.2 \times 0.04 \qquad \frac{2}{10} \cdot \frac{4}{100}$$

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## Starter Problem

Find the product.

Think about the meaning.

$$\begin{array}{r} 0.3 \\ \times 0.4 \\ \hline \end{array}$$

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Think about the meaning.

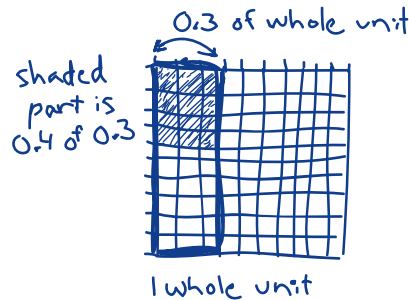
$$\begin{array}{r} 0.3 \\ \times 0.4 \\ \hline \end{array}$$

## Student Thinking



Jake

I need to find 4 tenths of 3 tenths. I marked off 3 tenths of my unit square and shaded 4 tenths of it. The product is 12 little squares that are each 1 hundredth of the unit. It's 12 hundredths. Tenths times tenths is always hundredths.



$$\begin{array}{r} 0.3 \\ \times 0.4 \\ \hline 0.12 \end{array}$$



Monica

I multiplied the numbers and put in a decimal. So 3 times 4 is 12. Bring the decimal down, and it's 1 and 2 tenths.



$$\begin{array}{r} 0.3 \\ \times 0.4 \\ \hline 1.2 \end{array}$$

## Things to Remember

- \* \_\_\_\_\_
- \* \_\_\_\_\_
- \* \_\_\_\_\_



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## Our Turn

Find the product. You may draw a picture to help you.

1.  $3.5 \times 0.4 =$  \_\_\_\_\_

2. 
$$\begin{array}{r} 0.8 \\ \times 0.5 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 0.04 \\ \times 0.2 \\ \hline \end{array}$$

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## My Turn

Find the product. You may draw a picture to help you.

1.  $2.4 \times 0.2 =$  \_\_\_\_\_

2. 
$$\begin{array}{r} 0.6 \\ \times 0.5 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 0.03 \\ \times 0.1 \\ \hline \end{array}$$

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**Multiple Choice Mini Lesson**

Fill in the circle next to the answer you choose.

1. 
$$\begin{array}{r} 0.4 \\ \times 0.2 \\ \hline \end{array}$$

☐ 0.6☐ 0.06☐ 0.8☐ 0.08

2.  $0.08 \times 0.5 =$  \_\_\_\_\_

☐ 0.4☐ 0.04☐ 0.004☐ 0.400

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**Multiple Choice Mini Lesson**

Fill in the circle next to the answer you choose.

1. 
$$\begin{array}{r} 0.4 \\ \times 0.2 \\ \hline \end{array}$$

☐ 0.6☐ 0.06☐ 0.8☐ 0.08

2.  $0.08 \times 0.5 =$  \_\_\_\_\_

☐ 0.4☐ 0.04☐ 0.004☐ 0.400

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## Writing Task Mini Lesson

Explain why  $0.1$  times  $0.5$  is equal to  $0.05$ . You may draw a picture on the back to help you explain.

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NAME:

## Writing Task Mini Lesson

Explain why  $0.1$  times  $0.5$  is equal to  $0.05$ . You may draw a picture on the back to help you explain.

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