

Warm Up!

Try these first....

$\begin{array}{r} 426 \\ \times 40 \\ \hline \end{array}$	$\begin{array}{r} 494 \\ \times 10 \\ \hline \end{array}$
$\begin{array}{r} 202 \\ \times 41 \\ \hline \end{array}$	$\begin{array}{r} 668 \\ \times 68 \\ \hline \end{array}$

Then this.... A train can hold 425 passengers. If the train takes a trip each day in January, how many passengers can it carry that month?

If you still have time, try these too!

$\begin{array}{r} 993 \\ \times 825 \\ \hline \end{array}$	$\begin{array}{r} 192 \\ \times 288 \\ \hline \end{array}$	$\begin{array}{r} 140 \\ \times 727 \\ \hline \end{array}$
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Check your work!

$\begin{array}{r} 426 \\ \times 40 \\ \hline 17040 \end{array}$	$\begin{array}{r} 494 \\ \times 10 \\ \hline 4940 \end{array}$
$\begin{array}{r} 202 \\ \times 41 \\ \hline 8282 \end{array}$	$\begin{array}{r} 668 \\ \times 68 \\ \hline 45424 \end{array}$

13, 175 passengers

$\begin{array}{r} 993 \\ \times 825 \\ \hline 819225 \end{array}$	$\begin{array}{r} 192 \\ \times 288 \\ \hline 55296 \end{array}$	$\begin{array}{r} 140 \\ \times 727 \\ \hline 101780 \end{array}$
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Quiz Grades

Write each in standard form:

11) 145 + 49.7

1) one and fourteen thousandths 12) 88.956 + 6.72

2) eight and 7 hundredths

3) forty-two hundredths 13) 150 - 64.78

Write each in word form:

14) 339.54 - 49.7

4) 0.765 5) 4.008 6) 6.87

Order the decimals from least to greatest:

7) 2.982, 2.289, 2.829 8) 0.6, 0.482, 0.53

Round to the place indicated:

9) 7.45 (tenths) 10) 0.6783 (hundredths)

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What is the product of 3 and 5?

Would the product of 0.3 and 0.5 be the same as 3 times five?

What about 3 times 0.5?

Why or why not?

$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$	$\begin{array}{r} 0.3 \\ \times 0.5 \\ \hline 15 \end{array}$	$\begin{array}{r} 3 \\ \times 0.5 \\ \hline 15 \end{array}$
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Multiplying Decimals

Objective - Devise a method to accurately multiply decimals

3.4×2.84

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Let's try multiplying them as fractions.

$\begin{array}{r} 0.3 \\ \times 0.5 \\ \hline 15 \end{array}$	=	_____
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_____ = _____

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$$\begin{array}{r} 3 \\ \times 0.5 \\ \hline 15 \end{array}$$

_____ = _____

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Let's try different numbers.

0.42 x 0.7

_____ = _____

0.294

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One more

0.9 x 3.4

_____ = _____

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If you don't want to use fractions each time,
there is another way.

Based on what you've seen so far, how do
you know where the decimal goes?

4 x 5 = 20

4 x 0.5 = 2.0

0.4 x 0.5 = 0.2

0.4 x 0.05 = 0.020

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To multiply decimals

1st - Multiply the numbers

2nd - Find your decimal place (DP) by counting the number of digits on the right of the decimal in each of the factors.

3rd - Make sure your product has the same number of digits on the right side of the decimal.


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Place the decimal in the product.

1) $\begin{array}{r} 0.6 \\ \times 0.6 \\ \hline 36 \end{array}$	2) $\begin{array}{r} 0.007 \\ \times 0.8 \\ \hline 56 \end{array}$	3) $\begin{array}{r} 35.78 \\ \times 5 \\ \hline 178.9 \end{array}$
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Other than the fact that you are multiplying, what is the biggest difference between multiplying and adding and subtracting?

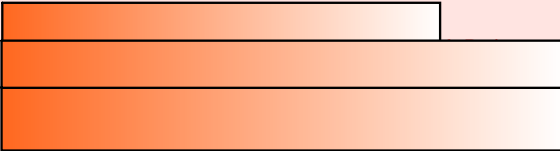


You don't have to line up the decimals!!!!

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What do multiplying fractions and multiplying decimals have in common?

Draw a rectangle to represent a candy bar.



They are the same. Both represent finding parts of parts, finding parts of wholes, and repeated addition.

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Read and solve with a partner. Be prepared to discuss in 3 minutes.

A landscaping company charges \$2.25 per square foot of flowers added to a yard. If a family wants 12.4 square feet of flowers added to a garden, how much will they have to pay?

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Practice time!!!

Fun Times Mathematically

When you finish... Write a math word problem that involves decimals and multiplication. For a challenge try making it two or more steps. Solve your problem on a separate sheet of paper. This will be your answer key. Then you can trade with a friend.

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Exit Ticket


1. $3.96 \cdot 0.4$

2. $1.73 \cdot 0.8$

3. $6.017 \cdot 2.0$

4. $2.15 \cdot 1.5$

5. A deli charges \$3.45 for a pound of turkey. If Tim wants to purchase 2.4 pounds, how much will it cost?



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Homefun

Workbook
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① 5.63×0.04

② 3.98×4.1

③ 17.3×0.46

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3.96×0.4

0.8×21.73

6.017×2.0

1.5×2.15

Jan 11-8:53 AM