





Monday 3.2.20

Multiplying and dividing decimals

Spicy



$0.04 \div \square = 0.004$

$0.4 \div \square = 0.004$

$0.04 \times \square = 0.4$

$0.04 \times \square = 4$

✓ or x

$0.2 \times 1,000 = \square$

$0.2 \times 100 = \square$

$3020 \div 10 = 302$

$302 \div 10 = 30.2$

$0.5 \times 1,000 = \square$

$0.5 \times 100 = \square$

$30.2 \div 10 = 3.2$

$3.02 \div 10 = 0.302$

$\square \times 1,000 = 170$

$\square \times 100 = 170$

$0.32 \div 10 = 0.032$

$170 \times 0.1 = \square$

$240 \times \square = 24$

$405 \times 10 = 4050$

$4.05 \times 10 = 4.050$

$170 \times 0.01 = \square$

$240 \times \square = 2.4$

$40.5 \times 10 = 405$

$4.05 \times 10 = 40.5$

$170 \times 0.001 = \square$

$240 \times \square = 0.24$

$0.405 \times 10 = 4.05$

Write >, < or = to compare the number sentences.

$1.4 \times 10 \times 10 \times 10 \quad \bigcirc \quad 1.4 \times 1,000$

$1.4 \times 10 \times 100 \quad \bigcirc \quad 1.4 \times 1,000$

$1.4 \times 10 \times 10 \quad \bigcirc \quad 1.4 \times 1,000$

$1.4 \times 10 \times 2 \quad \bigcirc \quad 1.4 \times 100$

	$\times 1,000$	$\div 1,000$
46		
60.2		
	562,000	0.562



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True or false?

$$0.45 \div 10 = .45$$

because I have removed a '0' to divide by 10.

$$90 \div 10 = 9$$

because I have removed a '0' to divide by 10.

$$0.09 \div 10 = 0.9$$

because I have removed a '0' to divide by 10.

$$25.34 \times 10 = 25.340$$

because I have placed a '0' at the end to multiply by 10.

Fill in the missing numbers

$$0.02 \times 1,000 = \square$$

$$0.02 \times 10,000 = \square$$

$$0.02 \times 100,000 = \square$$

Kim is calculating  $14.3 \times 200$

She writes this as her answer.

$$14.3 \times 200 = 28.600$$

Explain Kim's mistake.

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Use the cards to complete the calculation.

You can use each card more than once.

$\times 1$	$\times 10$	$\times 100$	$\times 1,000$
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$$0.002 \square \square \square = 2,000$$

How many ways is it possible to complete this calculation?



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Extra Spicy +



Fill in the missing numbers.

For each set of calculations explain what is the same, what is different, and explain the pattern.

$370 \times 1 = \square$	$\square \div 1 = 370$
$37 \times 10 = \square$	$\square \div 10 = 37$
$3.7 \times 100 = \square$	$\square \div 100 = 3.7$
$0.37 \times 1,000 = \square$	$\square \div 1,000 = 0.37$
$37 \times \square = 37$	$37 \div \square = 37$
$3.7 \times \square = 37$	$37 \div \square = 3.7$
$0.37 \times \square = 37$	$37 \div \square = 0.37$
$0.037 \times \square = 37$	$37 \div \square = 0.037$
$\square \times 1 = 0.37$	$0.37 \div 1 = \square$
$\square \times 10 = 3.7$	$3.7 \div 10 = \square$
$\square \times 100 = 37$	$37 \div 100 = \square$
$\square \times 1,000 = 370$	$370 \div 1,000 = \square$
$\square \times 1 = 0.037$	$0.037 \div 1 = \square$
$\square \times 10 = 0.37$	$0.37 \div 10 = \square$
$\square \times 100 = 3.7$	$3.7 \div 100 = \square$
$\square \times 1,000 = 37$	$37 \div 1,000 = \square$