

**MIND.  
READY.  
MATH.**

Name \_\_\_\_\_

Class \_\_\_\_\_ Date \_\_\_\_\_

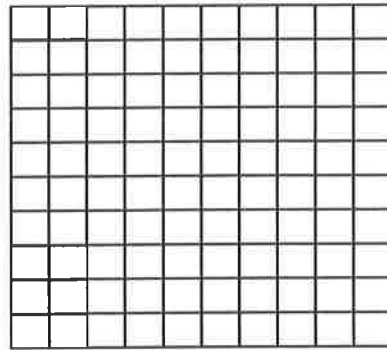
Find the product.

1.  $2.13 \times 0.9$

2.  $0.84 \times 0.7$

Model of product of the expression.

$0.9 \times 0.7$



Multiplying Decimals © 2015 NJM

**MIND.  
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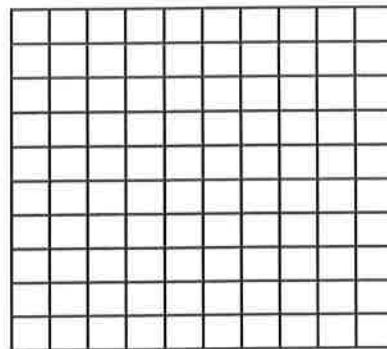
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Model of product of the expression.

$0.9 \times 0.7$



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## Dividing Decimals by Whole Numbers

<p>Use the long division symbol. The symbol separates the dividend and the divisor.</p> <p>Find the value of <math>5.79 \div 3</math></p> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <math display="block">3 \overline{) 5.79}</math> </div>	<p>Decimals points should be in the same place above and below the long division symbol.</p> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <math display="block">3 \overline{) 5.79}</math> </div>	<p>Divide like whole numbers.</p> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <math display="block">\begin{array}{r} 1.93 \\ 3 \overline{) 5.79} \\ \underline{-3} \phantom{00} \\ 27 \phantom{0} \\ \underline{-27} \phantom{0} \\ 9 \phantom{0} \\ \underline{-9} \phantom{0} \\ 0 \end{array}</math> </div>	<p>Check your work by multiplying the whole number and the quotient.</p> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <math display="block">\begin{array}{r} 1.93 \\ \times 3 \\ \hline 5.79 \end{array}</math> </div>
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### Frequently Asked Questions

<p><b>1. How do I add zeroes?</b> You can annex (add) zeroes after the dividend's decimal point if you need to extend the division operation.</p>	<p><b>2. What if I have a remainder?</b> Unless specified in the question stem or writing prompt, round the quotient to the thousandths place.</p>	<p><b>3. What if I can't divide my divisor by a number in the dividend?</b> You should write a zero above the number and keep dividing.</p>
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### Find the quotient.

(1) $39.81 \div 3$	(2) $7.352 \div 4$	(3) $619.3 \div 11$
(4) $0.48 \div 96$	(5) $15.6 \div 15$	(6) $57.28 \div 8$

## Dividing Decimals by Decimals

<p>Multiply the _____ by a power of 10 to represent a _____</p> <div style="border: 1px solid black; padding: 10px; text-align: center; margin-top: 10px;"> <math>4.3 \overline{) 5.79}</math> </div>	<p>Multiply the _____ by the same power of 10. Annex zeroes if necessary.</p> <div style="border: 1px solid black; padding: 10px; text-align: center; margin-top: 10px;"> <math>43 \overline{) 5.79}</math> </div>	<p>Divide using the standard algorithm.</p> <div style="border: 1px solid black; padding: 10px; text-align: center; margin-top: 10px;"> <math display="block">  \begin{array}{r}  1.346 \\  43 \overline{) 57.900} \\  \underline{-43} \phantom{00} \\  149 \phantom{0} \\  \underline{-129} \phantom{0} \\  200 \\  \underline{-172} \\  280 \\  \underline{-258} \\  22  \end{array}  </math> </div>	<p>Unless specified by the question stem or writing prompt, round to the thousandths place.</p>
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**Find the quotient.**

(1) $3.12 \div 2.6$	(2) $54.02 \div 7.4$	(3) $47.79 \div 5.9$
(4) $8.5 \div 0.6$	(5) $11.3 \div 4.8$	(6) $0.86 \div 0.14$
(7) $125.9 \div 1.7$	(8) $64.35 \div 0.3$	(9) $0.1 \div 0.81$

Name \_\_\_\_\_

Find the value of the expressions on the image. Record the values below. Use the codes to determine how to color the spaces. All blank spaces are "free spaces." You can begin coloring the free spaces once you complete the division problems.

**Color Codes**

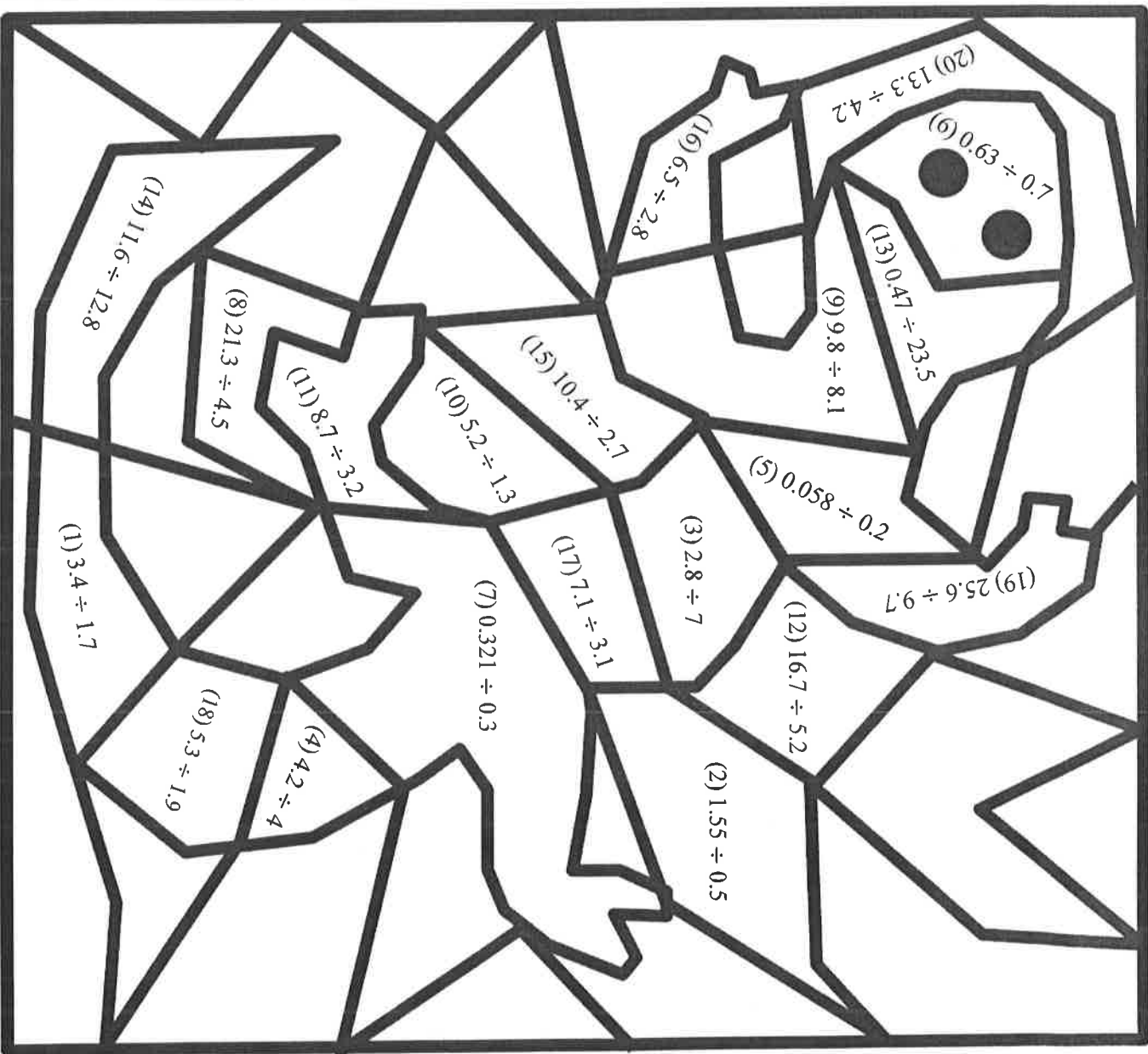
Green: quotients with a value of 0 - 2.9.

Brown: quotients with a value of 3 - 4.9

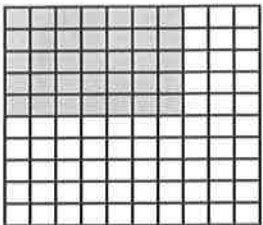
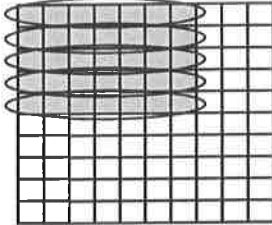
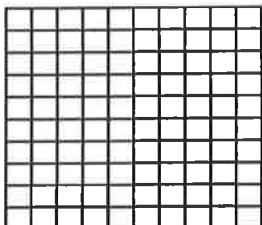
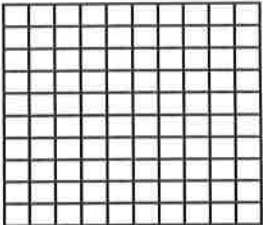
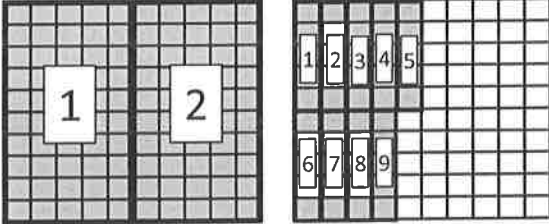
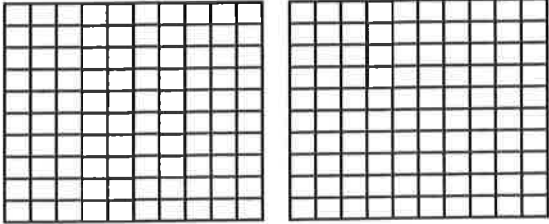
Blue: quotients with a value of 5 - 6.9

Red: quotients with a value of 7 or more

1.	11.
2.	12.
3.	13.
4.	14.
5.	15.
6.	16.
7.	17.
8.	18.
9.	19.
10.	20.

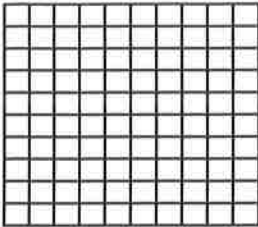


# Modeling Decimal Division with Grids

<p><u>Dividend and Divisor less than 1</u></p> <p>(1) Shade in the grids to represent the value of the dividend. (2) Count and circle or outline each group of squares that represent the divisor. (3) The number of groups circled is the quotient.</p>	<p>Model <math>0.35 \div 0.07</math></p> <p>Shade 0.35</p> 	<p>Circle groups of 0.07</p> 	<p>How many groups of 0.07 are circled?</p> <p>What is the quotient of <math>0.35 \div 0.07</math>?</p>
<p><b>Your Turn!</b></p> <p>Model the expressions and write the quotient of each expression.</p>	<p>Model <math>0.24 \div 0.04</math></p>  <p>What is the quotient?</p>	<p>Model <math>0.6 \div 0.12</math></p>  <p>What is the quotient?</p>	
<p><u>Dividend and/or divisor greater than 1.</u></p> <p>(1) Shade in the grids to represent the value of the dividend. (2) Count and circle or outline each group of squares that represent the divisor. (3) If there are any shaded squares remaining, group them based on the divisor. (4) The number of groups circled is the quotient.</p>	<p>Model <math>1.45 \div 0.5</math> First, count and outline groups of 0.5. Next, outline groups of 5 squares for the remaining shaded squares.</p>  <p>The groups show 2 groups of 0.5 and 9 groups of 0.05. Therefore, the quotient is 2.9.</p>		
<p><b>Your Turn!</b></p> <p>Model the expressions and write the quotient of each expression.</p>	<p>Model <math>1.86 \div 0.3</math></p>  <p>The groups show _____ groups of _____ and _____ groups of _____. Therefore, the quotient is _____.</p>		

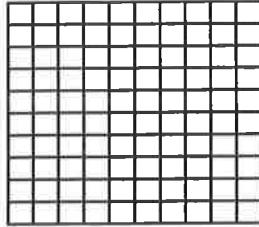
# Models. INK {Dividing Decimals}

Model  $0.45 \div 0.09$



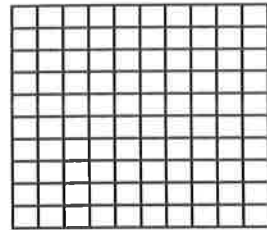
What is the quotient?

Model  $0.36 \div 0.12$



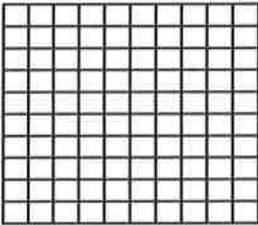
What is the quotient?

Model  $0.75 \div 0.25$



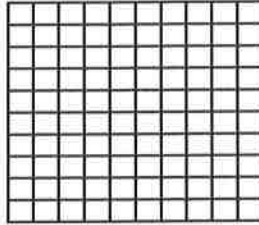
What is the quotient?

Model  $0.57 \div 0.19$



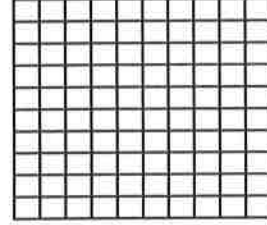
What is the quotient?

Model  $0.84 \div 0.21$



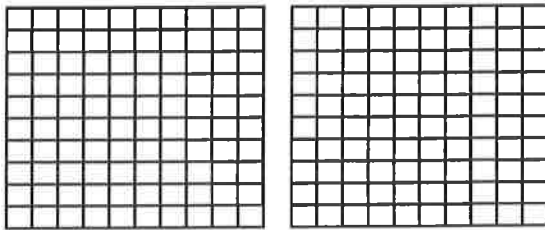
What is the quotient?

Model  $0.48 \div 0.06$



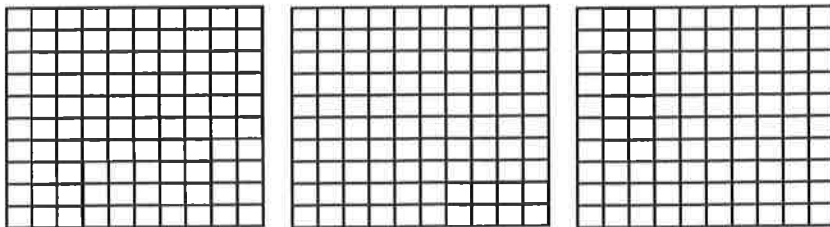
What is the quotient?

Model  $1.65 \div 0.3$



The groups show \_\_\_\_\_ groups of \_\_\_\_\_ and \_\_\_\_\_ groups of \_\_\_\_\_.  
Therefore, the quotient is \_\_\_\_\_.

Model  $2.48 \div 0.8$



The groups show \_\_\_\_\_ groups of \_\_\_\_\_ and \_\_\_\_\_ group of \_\_\_\_\_.  
Therefore, the quotient is \_\_\_\_\_.

Dividing Decimals Exit Ticket

Name \_\_\_\_\_

Class \_\_\_\_\_

Date \_\_\_\_\_

Find the quotient. Round to the thousandths place.

1.  $7.08 \div 3$

2.  $0.521 \div 4.6$

Dividing Decimals Exit Ticket

Name \_\_\_\_\_

Class \_\_\_\_\_

Date \_\_\_\_\_

Find the quotient. Round to the thousandths place.

1.  $7.08 \div 3$

2.  $0.521 \div 4.6$

Dividing Decimals Exit Ticket

Name \_\_\_\_\_

Class \_\_\_\_\_

Date \_\_\_\_\_

Find the quotient. Round to the thousandths place.

1.  $7.08 \div 3$

2.  $0.521 \div 4.6$

Dividing Decimals Exit Ticket

Name \_\_\_\_\_

Class \_\_\_\_\_

Date \_\_\_\_\_

Find the quotient. Round to the thousandths place.

1.  $7.08 \div 3$

2.  $0.521 \div 4.6$

Dividing Decimals Exit Ticket

Name \_\_\_\_\_

Class \_\_\_\_\_

Date \_\_\_\_\_

Find the quotient. Round to the thousandths place.

1.  $7.08 \div 3$

2.  $0.521 \div 4.6$

Dividing Decimals Exit Ticket

Name \_\_\_\_\_

Class \_\_\_\_\_

Date \_\_\_\_\_

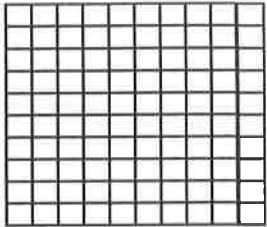
Find the quotient. Round to the thousandths place.

1.  $7.08 \div 3$

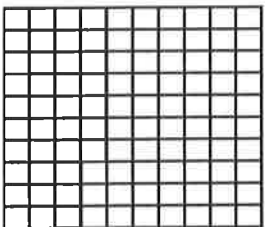
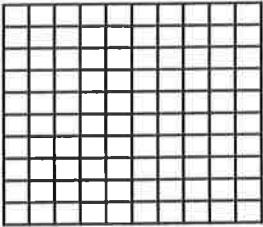
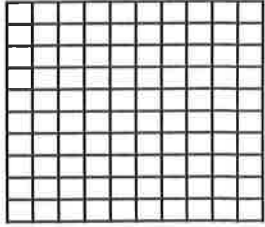
2.  $0.521 \div 4.6$

## Dividing Decimals Homework

### Part I: Decimal Operations Review

<p>(1) What is the sum of <math>0.893 + 0.7605</math>?</p>	<p>(2) What is the difference between <math>53.006</math> and <math>9.8</math>?</p>	<p>(3) Model the product of <math>0.6 \times 0.3</math> on the grid.</p> <div style="text-align: center;">  </div>
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### Part II: Dividing Decimals (Find the quotient. Round to the thousandths place if necessary.)

<p>(4) <math>6.2 \div 2</math></p>	<p>(5) <math>20.65 \div 5</math></p>
<p>(6) <math>98.86 \div 3.1</math></p>	<p>(7) <math>0.452 \div 0.7</math></p>
<p>(8) Model the quotient of <math>0.72 \div 0.09</math> on the grid.</p> <div style="text-align: center;">  </div> <p>What is the quotient?</p>	<p>(9) Model the quotient of <math>1.4 \div 0.5</math> on the grid.</p> <div style="display: flex; justify-content: center; gap: 20px;">   </div> <p>What is the quotient?</p>