

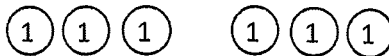
Name

Answer Key

Date

1. Draw number disks to represent the following problems. Rewrite each in unit form and solve.

a.  $6 \div 2 = \underline{3}$   
6 ones  $\div 2 = \underline{3}$  ones



b.  $60 \div 2 = \underline{30}$   
6 tens  $\div 2 = \underline{3}$  tens



c.  $600 \div 2 = \underline{300}$   
~~6 hundreds~~  $\div 2 = \underline{3}$  hundreds



d.  $6,000 \div 2 = \underline{3,000}$   
~~6 thousands~~  $\div 2 = \underline{3}$  thousands

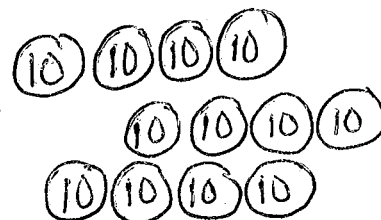


2. Draw number disks to represent each problem. Rewrite each in unit form and solve.

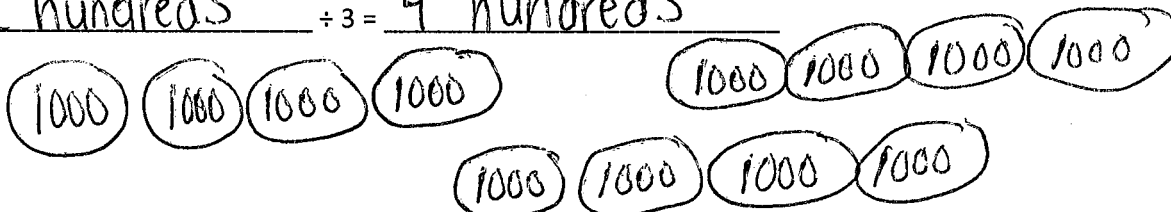
a.  $12 \div 3 = \underline{4}$   
12 ones  $\div 3 = \underline{4}$  ones



b.  $120 \div 3 = \underline{40}$   
12 tens  $\div 3 = \underline{4}$  tens



c.  $1,200 \div 3 = \underline{400}$   
12 hundreds  $\div 3 = \underline{4}$  hundreds



3. Rewrite each in unit form. Solve for the quotient.

a. $800 \div 2 = 400$ 8 hundreds $\div 2 =$ 4 hundreds	b. $600 \div 2$ 6 hundreds $\div 2 =$ 3 hundreds	c. $800 \div 4$ 8 hundreds $\div 4 =$ 2 hundreds	d. $900 \div 3$ 9 hundreds $\div 3 =$ 3 hundreds
e. $300 \div 6$ 30 tens $\div 6 =$ <u>5</u> tens	f. $240 \div 4$ 24 tens $\div 4 =$ 6 tens	g. $450 \div 5$ 45 tens $\div 5 =$ 9 tens	h. $200 \div 5$ 20 tens $\div 5 =$ 4 tens
i. $3,600 \div 4$ 36 hundreds $\div 4 =$ <u>9</u> hundreds	j. $2,400 \div 4$ 24 hundreds $\div 4 =$ 6 hundreds	k. $2,400 \div 3$ 24 hundreds $\div 3 =$ 8 hundreds	l. $4,000 \div 5$ 40 hundreds $\div 5 =$ 8 hundreds

4. Some sand weighs 2,800 kilograms. It is divided equally between 4 trucks. How many kilograms of sand are in each truck?

$$28 \text{ hundreds} \div 4 = 7 \text{ hundreds}$$

There are 700 kilograms of sand in each truck.

5. Ivy has 5 times as many stickers as Adrian has. Ivy has 350 stickers. How many stickers does Adrian have?

$$35 \text{ tens} \div 5 = 7 \text{ tens}$$

Adrian has 70 stickers

6. An ice cream stand sold \$1,600 worth of ice cream on Saturday, which was 4 times the amount sold on Friday. How much money did the ice cream stand collect on Friday?

$$16 \text{ hundreds} \div 4 = 4 \text{ hundreds}$$

The ice cream stand collected \$400 on Friday.

Name Answer Key

Date \_\_\_\_\_

1. Rewrite each in unit form. Solve for the quotient.

a. $600 \div 3 = 200$  6 hundreds $\div 3 =$ 2 hundreds	b. $1,200 \div 6$  12 hundreds $\div 6 =$ 2 hundreds	c. $2,100 \div 7$  21 hundreds $\div 7 =$ 3 hundreds	d. $3,200 \div 8$  32 hundreds $\div 8 =$ 4 hundreds
--	---	---	---

2. Hudson and 8 of his friends found a bag of pennies. There were 360 pennies which they shared equally. How many pennies did each person get?

$$36 \text{ tens} \div 9 = 4 \text{ tens}$$

Each person got 40 pennies

Name Answer Key

Date \_\_\_\_\_

1. Draw number disks to represent the following problems. Rewrite each in unit form and solve.

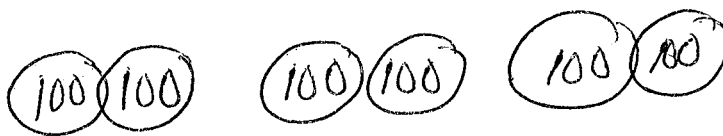
a.  $6 \div 3 = \underline{2}$   
 6 ones  $\div 3 = \underline{2}$  ones



b.  $60 \div 3 = \underline{20}$   
 6 tens  $\div 3 = \underline{2}$  tens



c.  $600 \div 3 = \underline{200}$   
 6 hundreds  $\div 3 = \underline{2}$  hundreds

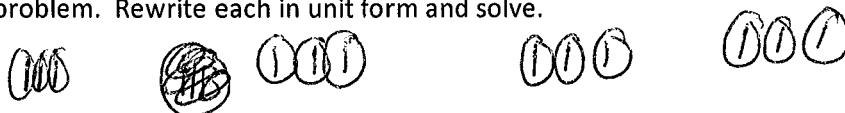


d.  $6,000 \div 3 = \underline{2,000}$   
 6 thousands  $\div 3 = \underline{2}$  thousands

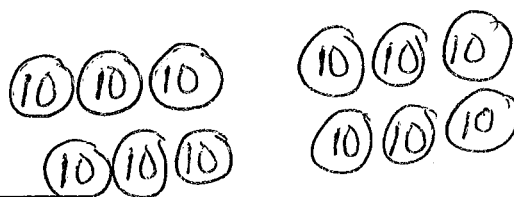


2. Draw number disks to represent each problem. Rewrite each in unit form and solve.

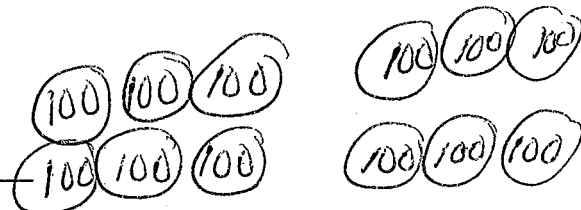
a.  $12 \div 4 = \underline{3}$   
 12 ones  $\div 4 = \underline{3}$  ones



b.  $120 \div 4 = \underline{30}$   
 12 tens  $\div 4 = \underline{3}$  tens



c.  $1,200 \div 4 = \underline{300}$   
 12 hundreds  $\div 4 = \underline{3}$  hundreds



3. Rewrite each in unit form. Solve for the quotient.

a. $800 \div 4 = 200$ 8 hundreds $\div 4 =$ 2 hundreds	b. $900 \div 3$ 9 hundreds $\div 3 =$ 3 hundreds	c. $400 \div 2$ 4 hundreds $\div 2 =$ 2 hundreds	d. $210 \div 3$ 21 tens $\div 3 =$ 7 tens
e. $200 \div 4$ 20 tens $\div 4 =$ <u>5</u> tens	f. $160 \div 2$ 16 tens $\div 2 =$ 8 tens	g. $400 \div 5$ 40 tens $\div 5 =$ 8 tens	h. $300 \div 5$ 30 tens $\div 5 =$ 6 tens
i. $1,200 \div 3$ 12 hundreds $\div 3 =$ <u>4</u> hundreds	j. $1,600 \div 4$ 16 hundreds $\div 4 =$ 4 hundreds	k. $2,400 \div 4$ 24 hundreds $\div 4 =$ 6 hundreds	l. $3,000 \div 5$ 30 hundreds $\div 5 =$ 6 hundreds

4. A fleet of five fire engines carries a total of 20,000 liters of water. If each truck holds the same amount of water, how many liters of water does each truck carry?

20 thousands  $\div 5 = 4$  thousands  
Each truck carries 4,000 liters of water.

5. Jamie drank 4 times as much juice as Brodie. Jamie drank 280 mL of juice. How much juice did Brodie drink?

28 tens  $\div 4 = 7$  tens  
Brodie drank 70 mL of juice.

6. A diner sold \$2,400 worth of French fries in June, which was 4 times as much as it sold in May. How many dollars' worth of French fries were sold at the diner in May?

24 hundreds  $\div 4 = 6$  hundreds  
\$600 worth of French fries were sold at the diner in May.

Name \_\_\_\_\_

Date \_\_\_\_\_

*Answer Key*

1. Divide. Use number disks to model each problem.

<p>a. <math>324 \div 2</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> <tr> <td colspan="3" style="text-align: right; padding-right: 20px;"> <p>1 hundred 6 tens 2 ones</p> </td> </tr> <tr> <td colspan="3" style="text-align: right; padding-right: 20px;"> <p>= 162</p> </td> </tr> </tbody> </table>	hundreds	tens	ones				<p>1 hundred 6 tens 2 ones</p>			<p>= 162</p>			<p>b. <math>344 \div 2</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> <tr> <td colspan="3" style="text-align: right; padding-right: 20px;"> <p>1 hundred 7 tens 2 ones</p> </td> </tr> <tr> <td colspan="3" style="text-align: right; padding-right: 20px;"> <p>= 172</p> </td> </tr> </tbody> </table>	hundreds	tens	ones				<p>1 hundred 7 tens 2 ones</p>			<p>= 172</p>		
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<p>c. <math>483 \div 3</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> <tr> <td colspan="3" style="text-align: right; padding-right: 20px;"> <p>1 hundred 6 tens 1 one</p> </td> </tr> <tr> <td colspan="3" style="text-align: right; padding-right: 20px;"> <p>= 161</p> </td> </tr> </tbody> </table>	hundreds	tens	ones				<p>1 hundred 6 tens 1 one</p>			<p>= 161</p>			<p>d. <math>549 \div 3</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> <tr> <td colspan="3" style="text-align: right; padding-right: 20px;"> <p>1 hundred 8 tens 3 ones</p> </td> </tr> <tr> <td colspan="3" style="text-align: right; padding-right: 20px;"> <p>= 183</p> </td> </tr> </tbody> </table>	hundreds	tens	ones				<p>1 hundred 8 tens 3 ones</p>			<p>= 183</p>		
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<p>1 hundred 8 tens 3 ones</p>																									
<p>= 183</p>																									

2. Model using number disks and record using the algorithm.

a.  $655 \div 5$

Number Disks

hundreds	tens	ones
<		

Name Answer Key

Date \_\_\_\_\_

Divide. Use number disks to model each problem. Then solve using the algorithm.

<p>1. <math>423 \div 3</math></p> <p>Number Disks</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td><math>= 141</math></td> </tr> </tbody> </table>	hundreds	tens	ones															$= 141$	<p>Algorithm</p> $  \begin{array}{r}  141 \\  3 \overline{) 423} \\  \underline{-3} \phantom{0} \\  12 \phantom{0} \\  \underline{-12} \phantom{0} \\  03 \\  \underline{-3} \\  0  \end{array}  $
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<p>2. <math>564 \div 4</math></p> <p>Number Disks</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td><math>= 141</math></td> </tr> </tbody> </table>	hundreds	tens	ones															$= 141$	<p>Algorithm</p> $  \begin{array}{r}  141 \\  4 \overline{) 564} \\  \underline{-4} \phantom{0} \\  16 \phantom{0} \\  \underline{-16} \phantom{0} \\  04 \\  \underline{-4} \\  0  \end{array}  $
hundreds	tens	ones																	
		$= 141$																	



Name Answer Key

Date \_\_\_\_\_

1. Divide. Use number disks to model each problem.

<p>a. <math>346 \div 2</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">//</td> <td style="text-align: center;">// // // //</td> <td style="text-align: center;">// // // //</td> </tr> <tr> <td style="text-align: center;">•</td> <td style="text-align: center;">• • • • • • • •</td> <td style="text-align: center;">• • •</td> </tr> <tr> <td style="text-align: center;">•</td> <td style="text-align: center;">• • • • • • • •</td> <td style="text-align: center;">• • •</td> </tr> </tbody> </table> <p style="text-align: right; margin-top: 10px;">1 hundred 7 tens 3 ones <b>= 173</b></p>	hundreds	tens	ones	//	// // // //	// // // //	•	• • • • • • • •	• • •	•	• • • • • • • •	• • •	<p>b. <math>528 \div 2</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">// // //</td> <td style="text-align: center;">// // // //</td> <td style="text-align: center;">// // // //</td> </tr> <tr> <td style="text-align: center;">• •</td> <td style="text-align: center;">• • • • •</td> <td style="text-align: center;">• • •</td> </tr> <tr> <td style="text-align: center;">• •</td> <td style="text-align: center;">• • • • •</td> <td style="text-align: center;">• • •</td> </tr> </tbody> </table> <p style="text-align: right; margin-top: 10px;">2 hundreds 6 tens 4 ones <b>= 264</b></p>	hundreds	tens	ones	// // //	// // // //	// // // //	• •	• • • • •	• • •	• •	• • • • •	• • •
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<p>c. <math>516 \div 3</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">// // //</td> <td style="text-align: center;">• • • • • • • •</td> <td style="text-align: center;">// // // //</td> </tr> <tr> <td style="text-align: center;">•</td> <td style="text-align: center;">• • • • • • • •</td> <td style="text-align: center;">• •</td> </tr> <tr> <td style="text-align: center;">•</td> <td style="text-align: center;">• • • • • • • •</td> <td style="text-align: center;">• •</td> </tr> </tbody> </table> <p style="text-align: right; margin-top: 10px;">1 hundred 7 tens 2 ones <b>= 172</b></p>	hundreds	tens	ones	// // //	• • • • • • • •	// // // //	•	• • • • • • • •	• •	•	• • • • • • • •	• •	<p>d. <math>729 \div 3</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">// // // //</td> <td style="text-align: center;">// //</td> <td style="text-align: center;">// // // //</td> </tr> <tr> <td style="text-align: center;">• •</td> <td style="text-align: center;">• • • • •</td> <td style="text-align: center;">• • •</td> </tr> <tr> <td style="text-align: center;">• •</td> <td style="text-align: center;">• • • • •</td> <td style="text-align: center;">• • •</td> </tr> </tbody> </table> <p style="text-align: right; margin-top: 10px;">2 hundreds 4 tens 3 ones <b>= 243</b></p>	hundreds	tens	ones	// // // //	// //	// // // //	• •	• • • • •	• • •	• •	• • • • •	• • •
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2. Model using number disks and record using the algorithm.

a.  $648 \div 4$

Number Disks

hundreds	tens	ones

1 hundred  
6 tens  
2 ones  
= 162

Algorithm

$$\begin{array}{r} 162 \\ 4 \overline{) 648} \\ \underline{4} \phantom{00} \\ 24 \phantom{0} \\ \underline{24} \phantom{0} \\ 08 \\ \underline{8} \\ 0 \end{array}$$

b.  $655 \div 5$

Number Disks

hundreds	tens	ones

1 hundred  
3 tens  
1 one  
= 131

Algorithm

$$\begin{array}{r} 131 \\ 5 \overline{) 655} \\ \underline{5} \phantom{00} \\ 15 \phantom{0} \\ \underline{15} \phantom{0} \\ 05 \\ \underline{5} \\ 0 \end{array}$$

c.  $964 \div 4$

Number Disks

hundreds	tens	ones

2 hundreds  
4 tens  
1 one  
= 241

Algorithm

$$\begin{array}{r} 241 \\ 4 \overline{) 964} \\ \underline{8} \phantom{00} \\ 16 \phantom{0} \\ \underline{16} \phantom{0} \\ 04 \\ \underline{4} \\ 0 \end{array}$$

Name \_\_\_\_\_

Date \_\_\_\_\_

*Answer Key*

1. Divide. Check your work by multiplying. Draw disks on a place value chart as needed.

a.  $574 \div 2$

$$\begin{array}{r}
 287 \\
 2 \overline{)574} \\
 \underline{-4} \phantom{0} \phantom{0} \\
 17 \phantom{0} \\
 \underline{-16} \phantom{0} \\
 14 \\
 \underline{-14} \\
 0
 \end{array}$$

b.  $861 \div 3$

$287$

c.  $354 \div 2$

$177$

d.  $354 \div 3$

$118$

e.  $873 \div 4$

$218 R1$

f.  $591 \div 5$

$118 R1$

g.  $275 \div 3$

$$91 \text{ R}2$$

h.  $459 \div 5$

$$91 \text{ R}4$$

i.  $678 \div 4$

$$169 \text{ R}2$$

j.  $955 \div 4$

$$238 \text{ R}3$$

2. Zach filled 581 one-liter bottles with apple cider. He distributed the bottles evenly to 4 stores. How many liter bottles did each of the stores receive? Were there any bottles left over? If so, how many?

$$4 \overline{) 581} \begin{array}{r} 145 \text{ R}1 \end{array}$$

Each of the stores received 145 liter bottles. There was 1 bottle remaining.

Name

Answer Key

Date

1. Divide. Check your work by multiplying. Draw disks on a place value chart as needed.

a.  $776 \div 2$

$$\begin{array}{r} 388 \\ 2 \overline{) 776} \\ \underline{-6} \phantom{0} \\ 17 \phantom{0} \\ \underline{-16} \phantom{0} \\ 16 \\ \underline{-16} \\ 0 \end{array}$$

$$\begin{array}{r} 388 \\ \times 2 \\ \hline 776 \end{array}$$

b.  $596 \div 3$

$$\begin{array}{r} 198 \text{ R} 2 \\ 3 \overline{) 596} \\ \underline{-3} \phantom{0} \\ 29 \phantom{0} \\ \underline{-27} \phantom{0} \\ 26 \\ \underline{-24} \\ 2 \end{array}$$

$$\begin{array}{r} 198 \\ \times 3 \\ \hline 594 \end{array}$$

$$\begin{array}{r} 594 \\ + 2 \\ \hline 596 \end{array}$$

2. A carton of milk contains 128 ounces. Sara's son drinks 4 ounces of milk at each meal. How many 4-ounce servings will one carton of milk provide?

$$\begin{array}{r} \times 32 \\ 4 \overline{) 128} \\ \underline{-12} \phantom{0} \\ 08 \\ \underline{-8} \\ 0 \end{array}$$

$$\begin{array}{r} 32 \\ \times 4 \\ \hline 128 \end{array}$$

Name Answer Key

Date \_\_\_\_\_

1. Divide. Check your work by multiplying. Draw disks on a place value chart as needed.

a.  $378 \div 2$

$$\begin{array}{r} 189 \\ 2 \overline{) 378} \\ \underline{-2} \phantom{00} \\ 17 \phantom{0} \\ \underline{-16} \phantom{0} \\ 18 \phantom{0} \\ \underline{-18} \\ 0 \end{array}$$

$$\begin{array}{r} 189 \\ \times 2 \\ \hline 378 \end{array}$$

b.  $795 \div 3$

$$\begin{array}{r} 265 \\ 3 \overline{) 795} \\ \underline{-6} \phantom{00} \\ 19 \phantom{0} \\ \underline{-18} \phantom{0} \\ 15 \phantom{0} \\ \underline{-15} \\ 0 \end{array}$$

$$\begin{array}{r} 265 \\ \times 3 \\ \hline 795 \end{array}$$

c.  $512 \div 4$

$$\begin{array}{r} 128 \\ 4 \overline{) 512} \\ \underline{-4} \phantom{00} \\ 11 \phantom{0} \\ \underline{-8} \phantom{0} \\ 32 \phantom{0} \\ \underline{-32} \\ 0 \end{array}$$

$$\begin{array}{r} 128 \\ \times 4 \\ \hline 512 \end{array}$$

d.  $492 \div 4$

$$\begin{array}{r} 123 \\ 4 \overline{) 492} \\ \underline{-4} \phantom{00} \\ 09 \phantom{0} \\ \underline{-8} \phantom{0} \\ 12 \phantom{0} \\ \underline{-12} \\ 0 \end{array}$$

$$\begin{array}{r} 123 \\ \times 4 \\ \hline 492 \end{array}$$

e.  $539 \div 3$

$$\begin{array}{r} 179 \text{ R}2 \\ 3 \overline{) 539} \\ \underline{-3} \phantom{00} \\ 23 \phantom{0} \\ \underline{-21} \phantom{0} \\ 29 \phantom{0} \\ \underline{-27} \\ 2 \end{array}$$

$$\begin{array}{r} 179 \\ \times 3 \\ \hline 537 \\ + 2 \\ \hline 539 \end{array}$$

f.  $862 \div 5$

$$\begin{array}{r} 172 \text{ R}2 \\ 5 \overline{) 862} \\ \underline{-5} \phantom{00} \\ 36 \phantom{0} \\ \underline{-35} \phantom{0} \\ 12 \phantom{0} \\ \underline{-10} \\ 2 \end{array}$$

$$\begin{array}{r} 172 \\ \times 5 \\ \hline 860 \\ + 2 \\ \hline 862 \end{array}$$

<p>g. <math>498 \div 3</math></p> $\begin{array}{r} 166 \\ 3 \overline{)498} \\ \underline{-3} \phantom{00} \\ 19 \phantom{00} \\ \underline{-18} \phantom{00} \\ 18 \phantom{00} \\ \underline{-18} \\ 0 \end{array}$ <p>Check: <math>\begin{array}{r} 166 \\ \times 3 \\ \hline 498 \end{array}</math></p>	<p>h. <math>783 \div 5</math></p> $\begin{array}{r} 156 R3 \\ 5 \overline{)783} \\ \underline{-5} \phantom{00} \\ 28 \phantom{00} \\ \underline{-25} \phantom{00} \\ 33 \phantom{00} \\ \underline{-30} \phantom{00} \\ 3 \end{array}$ <p>Check: <math>\begin{array}{r} 156 \\ \times 5 \\ \hline 780 \\ + 3 \\ \hline 783 \end{array}</math></p>
<p>i. <math>621 \div 4</math></p> $\begin{array}{r} 155 R1 \\ 4 \overline{)621} \\ \underline{-4} \phantom{00} \\ 22 \phantom{00} \\ \underline{-20} \phantom{00} \\ 21 \phantom{00} \\ \underline{-20} \\ 1 \end{array}$ <p>Check: <math>\begin{array}{r} 155 \\ \times 4 \\ \hline 620 \\ + 1 \\ \hline 621 \end{array}</math></p>	<p>j. <math>531 \div 4</math></p> $\begin{array}{r} 132 R3 \\ 4 \overline{)531} \\ \underline{-4} \phantom{00} \\ 13 \phantom{00} \\ \underline{-12} \phantom{00} \\ 11 \phantom{00} \\ \underline{-8} \phantom{00} \\ 3 \end{array}$ <p>Check: <math>\begin{array}{r} 132 \\ \times 4 \\ \hline 528 \\ + 3 \\ \hline 531 \end{array}</math></p>

2. Selena's dog completed an obstacle course that was 932 meters long. There were 4 parts to the course, all equal in length. How long was 1 part of the course?

Name Answer Key

Date \_\_\_\_\_

1. Divide, then check using multiplication.

a.  $1,672 \div 4$

$$\begin{array}{r} 4 \overline{) 1,672} \\ \underline{-16} \phantom{0} \\ 07 \phantom{0} \\ \underline{-4} \phantom{0} \\ 32 \\ \underline{-32} \\ 0 \end{array}$$

$$\begin{array}{r} 418 \\ \times 4 \\ \hline 1672 \end{array}$$

b.  $1,578 \div 4$

$$\begin{array}{r} 4 \overline{) 1,578} \\ \underline{-12} \phantom{0} \\ 37 \phantom{0} \\ \underline{-36} \phantom{0} \\ 18 \\ \underline{-16} \\ 2 \end{array}$$

$$\begin{array}{r} 394 \text{ R}2 \\ \times 4 \\ \hline 1576 \end{array}$$

c.  $6,948 \div 2$

$$\begin{array}{r} 2 \overline{) 6,948} \\ \underline{-6} \phantom{0} \\ 09 \phantom{0} \\ \underline{-8} \phantom{0} \\ 14 \phantom{0} \\ \underline{-14} \\ 08 \\ \underline{-8} \\ 0 \end{array}$$

$$\begin{array}{r} 3474 \\ \times 2 \\ \hline 6948 \end{array}$$

d.  $8,949 \div 4$

$$\begin{array}{r} 4 \overline{) 8,949} \\ \underline{-8} \phantom{0} \\ 09 \phantom{0} \\ \underline{-8} \phantom{0} \\ 14 \phantom{0} \\ \underline{-12} \phantom{0} \\ 29 \\ \underline{-28} \\ 1 \end{array}$$

$$\begin{array}{r} 2237 \text{ R}1 \\ \times 4 \\ \hline 8948 \end{array}$$

e.  $7,569 \div 2$

$$\begin{array}{r} 2 \overline{) 7,569} \\ \underline{-6} \phantom{0} \\ 15 \phantom{0} \\ \underline{-14} \phantom{0} \\ 16 \phantom{0} \\ \underline{-16} \\ 09 \end{array}$$

$$\begin{array}{r} 3784 \text{ R}1 \\ \times 2 \\ \hline 7568 \end{array}$$

f.  $7,569 \div 3$

$$\begin{array}{r} 3 \overline{) 7,569} \\ \underline{-6} \phantom{0} \\ 15 \phantom{0} \\ \underline{-15} \phantom{0} \\ 6 \phantom{0} \\ \underline{-6} \\ 0 \end{array}$$

$$\begin{array}{r} 2523 \\ \times 3 \\ \hline 7569 \end{array}$$



<p>g. <math>7,955 \div 5</math></p> <p>✓ 1591</p> $\begin{array}{r} 1591 \\ 5 \overline{) 7,955} \\ \underline{-5} \phantom{00} \\ 29 \phantom{00} \\ \underline{-25} \phantom{00} \\ 45 \phantom{00} \\ \underline{-45} \phantom{00} \\ 0 \end{array}$	<p>h. <math>7,574 \div 5</math></p> $\begin{array}{r} 1514 \text{ R4} \\ 5 \overline{) 7,574} \\ \underline{-5} \phantom{00} \\ 25 \phantom{00} \\ \underline{-25} \phantom{00} \\ 7 \phantom{00} \\ \underline{-5} \phantom{00} \\ 24 \phantom{00} \\ \underline{-20} \phantom{00} \\ 4 \end{array}$
<p>i. <math>7,469 \div 3</math></p> $\begin{array}{r} 2489 \text{ R2} \\ 3 \overline{) 7,469} \\ \underline{-6} \phantom{00} \\ 14 \phantom{00} \\ \underline{-12} \phantom{00} \\ 26 \phantom{00} \\ \underline{-24} \phantom{00} \\ 29 \phantom{00} \\ \underline{-27} \phantom{00} \\ 2 \end{array}$	<p>j. <math>9,956 \div 4</math></p> $\begin{array}{r} 2489 \\ 4 \overline{) 9,956} \\ \underline{-8} \phantom{00} \\ 19 \phantom{00} \\ \underline{-16} \phantom{00} \\ 35 \phantom{00} \\ \underline{-32} \phantom{00} \\ 36 \phantom{00} \\ \underline{-36} \phantom{00} \\ 0 \end{array}$

2. There are twice as many cows as goats on a farm. All the cows and goats have a total of 1,116 legs. How many goats are there?

$$\begin{array}{r} \times 279 \\ 4 \overline{) 1,116} \\ \underline{-8} \phantom{00} \\ 31 \phantom{00} \\ \underline{-28} \phantom{00} \\ 36 \phantom{00} \\ \underline{-36} \phantom{00} \\ 0 \end{array}$$

$$\begin{array}{r} \times 93 \\ 3 \overline{) 279} \\ \underline{-27} \phantom{00} \\ 09 \phantom{00} \\ \underline{-9} \phantom{00} \\ 0 \end{array}$$

There are 93 goats.

Name

*Answer Key*

Date

1. Divide, then check using multiplication.

a.  $1,770 \div 3$

$$\begin{array}{r} \times 590 \\ 3 \overline{) 1,770} \\ \underline{-15} \phantom{0} \\ 27 \phantom{0} \\ \underline{-27} \phantom{0} \\ 00 \\ 0 \end{array} \quad \begin{array}{r} 590 \\ 2 \times 3 \\ \hline 1,770 \end{array}$$

b.  $8,470 \div 5$

$$\begin{array}{r} 1694 \\ 5 \overline{) 8,470} \\ \underline{-5} \phantom{0} \\ 34 \phantom{0} \\ \underline{-30} \phantom{0} \\ 47 \phantom{0} \\ \underline{-45} \phantom{0} \\ 20 \\ \underline{-20} \\ 0 \end{array} \quad \begin{array}{r} 1694 \\ 3 \times 5 \\ \hline 8470 \end{array}$$

2. The post office had an equal number of each of 4 types of stamps. There were a total of 1,784 stamps. How many of each type of stamp did the post office have?

The post office has  
446 of each stamp.

$$\begin{array}{r} \times 446 \\ 4 \overline{) 1,784} \\ \underline{-16} \phantom{0} \\ 18 \phantom{0} \\ \underline{-16} \phantom{0} \\ 24 \phantom{0} \\ \underline{-24} \phantom{0} \\ 0 \end{array}$$

Name Answer Key

Date \_\_\_\_\_

1. Divide, then check using multiplication.

a.  $2,464 \div 4$

$$\begin{array}{r} 4 \overline{) 2,464} \\ 616 \end{array}$$

b.  $1,828 \div 3$

$$\begin{array}{r} \phantom{0} \times 609 \text{ R}1 \\ 3 \overline{) 1,828} \\ \underline{+8} \phantom{00} \\ 02 \phantom{00} \\ \underline{-0} \phantom{00} \\ 28 \phantom{00} \\ \underline{-27} \phantom{00} \\ 1 \end{array}$$

c.  $9,426 \div 3$

$$\begin{array}{r} 3142 \end{array}$$

d.  $6,587 \div 2$

$$\begin{array}{r} \phantom{0} \times 3293 \text{ R}1 \\ 2 \overline{) 6,587} \\ \underline{-6} \phantom{00} \\ 05 \phantom{00} \\ \underline{-4} \phantom{00} \\ 18 \phantom{00} \\ \underline{-18} \phantom{00} \\ 07 \phantom{00} \\ \underline{-6} \phantom{00} \\ 1 \end{array}$$

e.  $5,425 \div 3$

$$\begin{array}{r} \phantom{0} \times 1808 \text{ R}1 \\ 3 \overline{) 5425} \\ \underline{-3} \phantom{00} \\ 24 \phantom{00} \\ \underline{-24} \phantom{00} \\ 02 \phantom{00} \\ \underline{-0} \phantom{00} \\ 25 \end{array}$$

f.  $5,425 \div 2$

$$\begin{array}{r} \phantom{0} \times 2712 \text{ R}1 \\ 2 \overline{) 5425} \\ \underline{-4} \phantom{00} \\ 14 \phantom{00} \\ \underline{-14} \phantom{00} \\ 2 \phantom{00} \\ \underline{-2} \phantom{00} \\ 05 \phantom{00} \\ \underline{-4} \phantom{00} \\ 1 \end{array}$$
  

$$\begin{array}{r} 2712 \\ \times 2 \\ \hline 5424 \\ + 1 \\ \hline 5425 \end{array}$$

<p>g. <math>8,427 \div 3</math></p> $\begin{array}{r} 2809 \\ 3 \overline{) 8,427} \\ \underline{-6} \phantom{00} \\ 24 \phantom{00} \\ \underline{-24} \phantom{00} \\ 02 \phantom{00} \\ \underline{-0} \phantom{00} \\ 27 \end{array}$ $\begin{array}{r} 2809 \\ 2 \times 23 \\ \hline 8427 \end{array}$	<p>h. <math>8,426 \div 3</math></p> $\begin{array}{r} 2808 R2 \\ 3 \overline{) 8,426} \\ \underline{-6} \phantom{00} \\ 24 \phantom{00} \\ \underline{-24} \phantom{00} \\ 02 \phantom{00} \\ \underline{-0} \phantom{00} \\ 26 \phantom{00} \\ \underline{-24} \phantom{00} \\ 2 \end{array}$ $\begin{array}{r} 2808 \\ 2 \times 23 \\ \hline 8424 \\ + 2 \\ \hline 8426 \end{array}$
<p>i. <math>4,937 \div 4</math></p> $\begin{array}{r} 1234 R1 \\ 4 \overline{) 4,937} \\ \underline{-4} \phantom{00} \\ 9 \phantom{00} \\ \underline{-8} \phantom{00} \\ 13 \phantom{00} \\ \underline{-12} \phantom{00} \\ 17 \end{array}$ $\begin{array}{r} 1,234 \\ 4 \times 4 \\ \hline 4936 \\ + 1 \\ \hline 4937 \end{array}$	<p>j. <math>6,173 \div 5</math></p> $\begin{array}{r} 1234 R3 \\ 5 \overline{) 6,173} \\ \underline{-5} \phantom{00} \\ 11 \phantom{00} \\ \underline{-10} \phantom{00} \\ 17 \phantom{00} \\ \underline{-15} \phantom{00} \\ 23 \end{array}$ $\begin{array}{r} 1234 \\ 5 \times 5 \\ \hline 6170 \\ + 3 \\ \hline 6173 \end{array}$

2. A truck has four crates of apples. Each crate has an equal number of apples. Altogether, the truck is carrying 1,728 apples. How many apples are in three crates?

$$\begin{array}{r} 432 \\ 4 \overline{) 1728} \\ \underline{-16} \phantom{00} \\ 12 \phantom{00} \\ \underline{-12} \phantom{00} \\ 08 \phantom{00} \\ \underline{-8} \phantom{00} \\ 0 \end{array}$$

$$\begin{array}{r} 432 \\ \times 3 \\ \hline 1296 \end{array}$$

There are 1,296 apples in 3 crates.

Name

Answer Key

Date \_\_\_\_\_

Divide. Check your solutions by multiplying.

1.  $204 \div 4$

$$\begin{array}{r} \times 51 \\ 4 \overline{)204} \\ \underline{-20} \phantom{0} \\ 04 \\ \underline{-4} \\ 0 \end{array}$$

2.  $704 \div 3$

$$\begin{array}{r} 234 \text{ R}2 \\ 3 \overline{)704} \\ \underline{-6} \phantom{0} \\ 10 \\ \underline{-9} \phantom{0} \\ 14 \\ \underline{-12} \\ 2 \end{array}$$

3.  $627 \div 3$

$$\begin{array}{r} 209 \\ 3 \overline{)627} \\ \underline{-6} \phantom{0} \\ 02 \\ \underline{-0} \phantom{0} \\ 27 \\ \underline{-27} \\ 0 \end{array}$$

4.  $407 \div 2$

$$\begin{array}{r} 203 \text{ R}1 \\ 2 \overline{)407} \\ \underline{-4} \phantom{0} \\ 00 \\ \underline{-0} \phantom{0} \\ 07 \\ \underline{-6} \\ 1 \end{array}$$

5.  $760 \div 4$

$$\begin{array}{r} 190 \\ 4 \overline{)760} \\ \underline{-4} \phantom{0} \\ 36 \\ \underline{-36} \\ 00 \end{array}$$

6.  $5,120 \div 4$

$$\begin{array}{r} 1280 \\ 4 \overline{)5120} \\ \underline{-4} \phantom{0} \\ 11 \\ \underline{-8} \phantom{0} \\ 32 \\ \underline{-32} \\ 00 \end{array}$$

7.  $3,070 \div 5$

$$\begin{array}{r} \times 614 \\ 5 \overline{) 3070} \\ \underline{-30} \phantom{0} \\ 07 \phantom{0} \\ \underline{-5} \phantom{0} \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

8.  $6,706 \div 5$

$$\begin{array}{r} 1341 \text{ R } 1 \\ 5 \overline{) 6706} \\ \underline{-5} \phantom{00} \\ 17 \phantom{0} \\ \underline{-15} \phantom{0} \\ 20 \\ \underline{-20} \\ 06 \\ \underline{-5} \\ 1 \end{array}$$

9.  $8,313 \div 4$

$$\begin{array}{r} 2078 \text{ R } 1 \\ 4 \overline{) 8313} \\ \underline{-8} \phantom{00} \\ 03 \phantom{0} \\ \underline{-0} \phantom{0} \\ 31 \\ \underline{-28} \\ 33 \\ \underline{-32} \\ 1 \end{array}$$

10.  $9,008 \div 3$

$$\begin{array}{r} 3002 \text{ R } 2 \\ 3 \overline{) 9008} \\ \underline{-9} \phantom{000} \\ 00 \phantom{0} \\ \underline{-0} \phantom{0} \\ 00 \phantom{0} \\ \underline{-0} \phantom{0} \\ 08 \\ \underline{-6} \\ 2 \end{array}$$

11.

- a. Find the quotient and remainder for  $3,131 \div 3$ .

$$\begin{array}{r} 1043 \text{ R } 2 \\ 3 \overline{) 3131} \\ \underline{-3} \phantom{000} \\ 01 \phantom{0} \\ \underline{-0} \phantom{0} \\ 13 \\ \underline{-12} \\ 11 \\ \underline{-9} \\ 2 \end{array}$$

- b. How could you change the digit in the ones place of the whole so that there would be no remainder? Explain how you determined your answer.

something divisible  
by 3

2 for 12

5-for 15

Name Answer Key

Date \_\_\_\_\_

Divide. Check your solutions by multiplying.

1.  $380 \div 4$

$$\begin{array}{r}
 \times 95 \\
 4 \overline{) 380} \\
 \underline{-36} \phantom{0} \\
 20 \\
 \underline{-20} \\
 0
 \end{array}$$

$$\begin{array}{r}
 95 \\
 \times 4 \\
 \hline
 380
 \end{array}$$

2.  $7,040 \div 3$

$$\begin{array}{r}
 2346 \text{ R}2 \\
 3 \overline{) 7040} \\
 \underline{-6} \phantom{00} \\
 10 \phantom{0} \\
 \underline{-9} \phantom{0} \\
 14 \phantom{0} \\
 \underline{-12} \phantom{0} \\
 20 \\
 \underline{-18} \\
 2
 \end{array}$$

$$\begin{array}{r}
 2346 \\
 \times 3 \\
 \hline
 7038
 \end{array}$$

$$\begin{array}{r}
 7038 \\
 \times 2 \\
 \hline
 7040
 \end{array}$$

Name

Answer Key

Date \_\_\_\_\_

Divide. Check your solutions by multiplying.

1.  $409 \div 5$

$$\begin{array}{r} 81 R4 \\ 5 \overline{)409} \\ \underline{-40} \phantom{0} \\ 09 \\ \underline{-5} \phantom{0} \\ 4 \end{array}$$

2.  $503 \div 2$

$$\begin{array}{r} 81 \\ \times 5 \\ \hline 405 \\ \phantom{0} + 4 \\ \hline 409 \end{array} \checkmark$$

$$\begin{array}{r} 251 R1 \\ 2 \overline{)503} \\ \underline{-4} \phantom{0} \\ 10 \\ \underline{-10} \phantom{0} \\ 03 \\ \underline{-2} \phantom{0} \\ 1 \end{array}$$

$$\begin{array}{r} 251 \\ \times 2 \\ \hline 502 \end{array}$$

$$\begin{array}{r} 502 \\ \phantom{0} + 1 \\ \hline 503 \end{array} \checkmark$$

3.  $831 \div 4$

$$\begin{array}{r} 207 R3 \\ 4 \overline{)831} \\ \underline{-8} \phantom{0} \\ 03 \\ \underline{-0} \phantom{0} \\ 31 \\ \underline{-28} \phantom{0} \\ 3 \end{array}$$

$$\begin{array}{r} 207 \\ \times 4 \\ \hline 828 \\ \phantom{0} + 3 \\ \hline 831 \end{array} \checkmark$$

4.  $602 \div 3$

$$\begin{array}{r} 200 R2 \\ 3 \overline{)602} \\ \underline{-6} \phantom{0} \\ 00 \\ \underline{-0} \phantom{0} \\ 2 \\ \underline{-0} \phantom{0} \\ 2 \end{array}$$

$$\begin{array}{r} 200 \\ \times 3 \\ \hline 600 \end{array}$$

$$\begin{array}{r} 600 \\ \phantom{0} + 2 \\ \hline 602 \end{array}$$

5.  $720 \div 3$

$$\begin{array}{r} 240 \\ 3 \overline{)720} \\ \underline{-6} \phantom{0} \\ 12 \\ \underline{-12} \phantom{0} \\ 00 \\ \underline{-0} \phantom{0} \\ 0 \end{array}$$

$$\begin{array}{r} 240 \\ \times 3 \\ \hline 720 \end{array} \checkmark$$

6.  $6,250 \div 5$

$$\begin{array}{r} 1250 \\ 5 \overline{)6250} \\ \underline{-5} \phantom{0} \\ 12 \\ \underline{-10} \phantom{0} \\ 25 \\ \underline{-25} \phantom{0} \\ 00 \\ \underline{-0} \phantom{0} \\ 0 \end{array}$$

$$\begin{array}{r} 1250 \\ \times 5 \\ \hline 6250 \end{array} \checkmark$$



7.  $2,060 \div 5$

$$\begin{array}{r} \times 412 \\ 5 \overline{) 2060} \\ \underline{-20} \phantom{0} \\ 06 \phantom{0} \\ \underline{-5} \phantom{0} \\ 10 \phantom{0} \\ \underline{-10} \\ 0 \end{array}$$

$$\begin{array}{r} 412 \\ \times 5 \\ \hline 2060 \end{array}$$

8.  $9,031 \div 2$

$$\begin{array}{r} 4515 R1 \\ 2 \overline{) 9031} \\ \underline{-8} \phantom{00} \\ 10 \phantom{0} \\ \underline{-10} \phantom{0} \\ 03 \phantom{0} \\ \underline{-2} \phantom{0} \\ 11 \phantom{0} \\ \underline{-10} \\ 1 \end{array}$$

$$\begin{array}{r} 4515 \\ \times 2 \\ \hline 9030 \end{array}$$

$$\begin{array}{r} 9030 \\ + 1 \\ \hline 9031 \end{array}$$

9.  $6,218 \div 4$

$$\begin{array}{r} 1554 R2 \\ 4 \overline{) 6218} \\ \underline{-4} \phantom{00} \\ 22 \phantom{0} \\ \underline{-20} \phantom{0} \\ 21 \phantom{0} \\ \underline{-20} \phantom{0} \\ 18 \phantom{0} \\ \underline{-16} \\ 2 \end{array}$$

$$\begin{array}{r} 1554 \\ \times 4 \\ \hline 6216 \\ + 2 \\ \hline 6218 \end{array}$$

$$\begin{array}{r} 2000 \\ 4 \overline{) 8,000} \end{array}$$

$$\begin{array}{r} 2,000 \\ \times 4 \\ \hline 8,000 \end{array}$$

**A**

# Correct \_\_\_\_\_

Divide.

1	$6 \div 2 =$	3	23	$300 \div 5 =$	600
2	$60 \div 2 =$	30	24	$3000 \div 5 =$	6,000
3	$600 \div 2 =$	300	25	$16 \div 4 =$	4
4	$6000 \div 2 =$	3000	26	$160 \div 4 =$	40
5	$9 \div 3 =$	3	27	$18 \div 6 =$	3
6	$90 \div 3 =$	30	28	$1800 \div 6 =$	300
7	$900 \div 3 =$	300	29	$28 \div 7 =$	4
8	$9000 \div 3 =$	3000	30	$280 \div 7 =$	40
9	$10 \div 5 =$	2	31	$48 \div 8 =$	6
10	$15 \div 5 =$	3	32	$4800 \div 8 =$	600
11	$150 \div 5 =$	30	33	$6300 \div 9 =$	700
12	$1500 \div 5 =$	300	34	$200 \div 5 =$	40
13	$2500 \div 5 =$	500	35	$560 \div 7 =$	80
14	$3500 \div 5 =$	700	36	$7200 \div 9 =$	800
15	$4500 \div 5 =$	900	37	$480 \div 6 =$	80
16	$450 \div 5 =$	90	38	$5600 \div 8 =$	700
17	$8 \div 4 =$	2	39	$400 \div 5 =$	80
18	$12 \div 4 =$	3	40	$6300 \div 7 =$	900
19	$120 \div 4 =$	30	41	$810 \div 9 =$	90
20	$1200 \div 4 =$	300	42	$640 \div 8 =$	80
21	$25 \div 5 =$	5	43	$5400 \div 6 =$	900
22	$30 \div 5 =$	6	44	$4000 \div 5 =$	800

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**B**

Improvement \_\_\_\_\_

# Correct \_\_\_\_\_

Add.

1	$4 \div 2 =$	2	23	$200 \div 5 =$	40
2	$40 \div 2 =$	20	24	$2000 \div 5 =$	400
3	$400 \div 2 =$	200	25	$12 \div 4 =$	3
4	$4000 \div 2 =$	2000	26	$120 \div 4 =$	30
5	$6 \div 3 =$	2	27	$21 \div 7 =$	3
6	$60 \div 3 =$	20	28	$2100 \div 7 =$	300
7	$600 \div 3 =$	200	29	$18 \div 6 =$	3
8	$6000 \div 3 =$	2000	30	$180 \div 6 =$	30
9	$10 \div 5 =$	2	31	$54 \div 9 =$	6
10	$15 \div 5 =$	3	32	$5400 \div 9 =$	600
11	$150 \div 5 =$	30	33	$5600 \div 8 =$	700
12	$250 \div 5 =$	50	34	$300 \div 5 =$	60
13	$350 \div 5 =$	70	35	$490 \div 7 =$	70
14	$3500 \div 5 =$	700	36	$6300 \div 9 =$	700
15	$4500 \div 5 =$	900	37	$420 \div 6 =$	70
16	$450 \div 5 =$	90	38	$4800 \div 8 =$	600
17	$9 \div 3 =$	3	39	$4000 \div 5 =$	800
18	$12 \div 3 =$	4	40	$560 \div 8 =$	70
19	$120 \div 3 =$	40	41	$6400 \div 8 =$	800
20	$1200 \div 3 =$	400	42	$720 \div 8 =$	90
21	$25 \div 5 =$	5	43	$4800 \div 6 =$	800
22	$20 \div 5 =$	4	44	$400 \div 5 =$	80

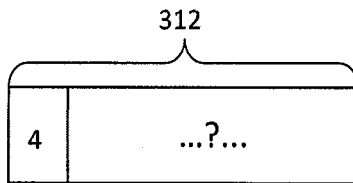
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Name Answer Key

Date \_\_\_\_\_

Draw a tape diagram and solve. The first two tape diagrams have been drawn for you. Identify if the group size or the number of groups is unknown.

1. Monique needs exactly 4 plates on each table for the banquet. If she has 312 plates, how many tables is she able to prepare?

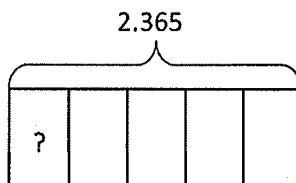


$$\begin{array}{r} \times 78 \\ 4 \overline{) 312} \\ \underline{-28} \phantom{0} \\ 32 \\ \underline{-32} \\ 0 \end{array}$$

Monique is able to prepare 78 tables.

The # of groups is unknown

2. 2,365 books were donated to an elementary school. If 5 classrooms shared the books equally, how many books did each class receive?

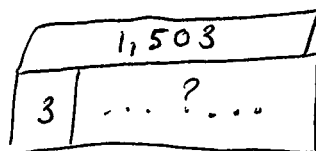


$$\begin{array}{r} \times 473 \\ 5 \overline{) 2,365} \\ \underline{-20} \phantom{00} \\ 36 \\ \underline{-35} \phantom{0} \\ 15 \\ \underline{-15} \\ 0 \end{array}$$

Each class received 473 books.

The group size is unknown.

3. If 1,503 kilograms of rice was packed in sacks weighing 3 kilograms each, how many sacks were packed?

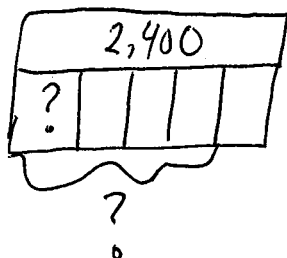


$$\begin{array}{r} \times 501 \\ 3 \overline{) 1,503} \\ \underline{-15} \phantom{00} \\ 00 \\ \underline{-00} \phantom{00} \\ 03 \\ \underline{-3} \\ 0 \end{array}$$

501 sacks were packed.

The # of groups is unknown.

4. Rita made 5 batches of cookies. There were a total of 2,400 cookies. If there were the same number of cookies in each batch, how many cookies were in 4 batches?



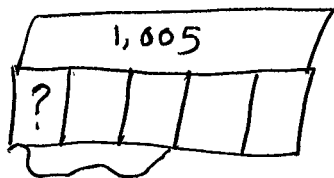
$$\begin{array}{r} \times 480 \\ 5 \overline{) 2,400} \\ \underline{-20} \phantom{0} \\ 40 \\ \underline{-40} \phantom{0} \\ 00 \\ \underline{-00} \\ 0 \end{array}$$

$$\begin{array}{r} 480 \\ \times 4 \\ \hline 1920 \end{array}$$

There were 1,920 cookies in 4 batches.

The group size is unknown.

5. Every day, Sarah drives the same distance to work and back home. If Sarah drove ~~1,008~~ <sup>1,005</sup> miles in 5 days, how far did Sarah drive in 3 days?



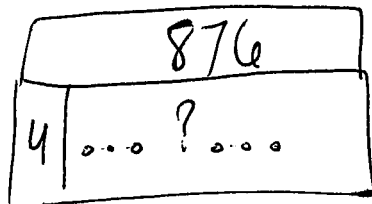
$$\begin{array}{r} 201 \\ 5 \overline{) 1,005} \\ \underline{-10} \phantom{0} \\ 00 \\ \underline{-00} \\ 5 \\ \underline{-5} \\ 0 \end{array}$$

$$\begin{array}{r} 201 \\ \times 3 \\ \hline 603 \end{array}$$

Sarah drove 603 miles in 3 days.

The group size is unknown.

4. A piece of ribbon 876 inches long was cut by a machine into 4-inch long strips to be made into bows. How many strips were cut?

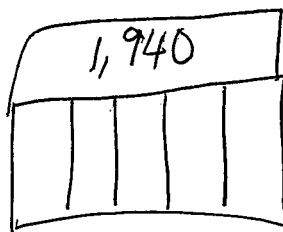


219 strips were cut.

$$\begin{array}{r} 219 \\ 4 \overline{) 876} \\ \underline{8} \phantom{0} \\ 07 \phantom{0} \\ \underline{-4} \phantom{0} \\ 36 \phantom{0} \\ \underline{-32} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

The # of groups is unknown

5. Five Martians equally share 1,940 Groblarx fruits. How many Groblarx fruits will 3 of the Martians receive?



The group size is unknown.

$$\begin{array}{r} \times 388 \\ 5 \overline{) 1940} \\ \underline{-15} \phantom{0} \\ 44 \phantom{0} \\ \underline{-40} \phantom{0} \\ 40 \phantom{0} \\ \underline{-40} \\ 0 \end{array}$$

3 Martians will receive 1,164 groblarx fruits.

$$\begin{array}{r} 388 \\ \times 3 \\ \hline 1164 \end{array}$$

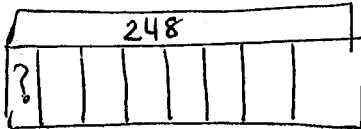
Name

*Answer Key*

Date

Solve the following problems. Draw tape diagrams to help you solve. If there is a remainder, shade in a small portion of the tape diagram to represent that portion of the whole.

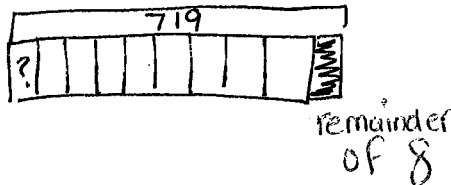
1. A concert hall contains 8 sections of seats with the same number of seats in each section. If there are 248 seats, how many seats are in each section?



$$\begin{array}{r} 31 \\ 8 \overline{)248} \\ \underline{-24} \phantom{0} \\ 08 \\ \underline{-8} \\ 0 \end{array}$$

There are 31 seats in each section.

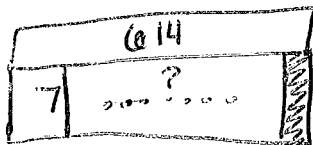
2. In one day, the bakery made 719 bagels. The bagels were divided into 9 equal shipments. A few bagels were left over and given to the baker. How many bagels did the baker get?



$$\begin{array}{r} \times 79 \text{ R}8 \\ 9 \overline{)719} \\ \underline{-63} \phantom{0} \\ 89 \\ \underline{-81} \\ 8 \end{array}$$

The baker got 8 bagels.

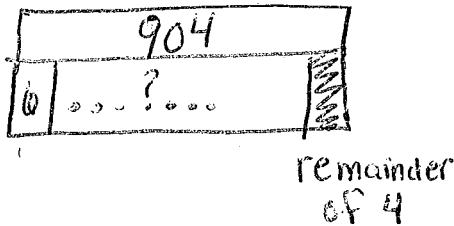
3. The sweet shop has 614 pieces of candy. They packed the candy into bags with 7 pieces in each bag. How many bags of candy did they fill? How many pieces of candy were left?



$$\begin{array}{r} \times 87 \text{ R}5 \\ 7 \overline{)614} \\ \underline{-56} \phantom{0} \\ 54 \\ \underline{-49} \\ 5 \end{array}$$

They filled 87 bags of candy. 5 pieces of candy were left.

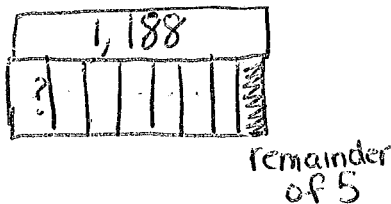
4. There were 904 children signed up for the relay race. If there were 6 children on each team, how many teams were made? The remaining children served as referees. How many children served as referees?



$$\begin{array}{r} 150R4 \\ 6 \overline{)904} \\ \underline{6} \phantom{0} \\ 30 \phantom{0} \\ \underline{30} \phantom{0} \\ 04 \\ \underline{00} \\ 4 \end{array}$$

150 teams were made  
4 children served as referees.

5. 1,188 kilograms of rice are divided into 7 sacks. How many kilograms of rice are in 6 sacks of rice? How many kilograms of rice remain?



$$\begin{array}{r} \times 169 R5 \\ 7 \overline{)1188} \\ \underline{-7} \phantom{00} \\ 48 \phantom{0} \\ \underline{42} \phantom{0} \\ 68 \phantom{0} \\ \underline{-63} \phantom{0} \\ 5 \end{array}$$

$$\begin{array}{r} 169 \\ \times 6 \\ \hline 1,014 \end{array}$$

There are 1,014 kgs. of rice in 6 sacks of rice. 5 kgs. of rice remain.



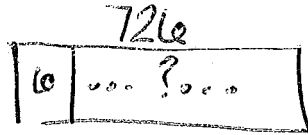
Name

*Answer Key*

Date

Solve the following problems. Draw tape diagrams to help you solve. If there is a remainder, shade in a small portion of the tape diagram to represent that portion of the whole.

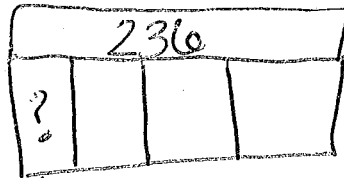
1. Mr. Foote needs exactly 6 folders for each fourth grade student at Hoover Elementary School. If he bought 726 folders, how many students can he supply folders to?



$$\begin{array}{r} 121 \\ 6 \overline{) 726} \\ \underline{-6} \phantom{0} \\ 12 \\ \underline{-12} \\ 0 \end{array}$$

*He can supply  
121 students  
with folders.*

2. Mrs. Terrance has a large bin of 236 crayons. He divides them equally among four containers. How many crayons does Mrs. Terrance have in each container?



$$\begin{array}{r} \times 59 \\ 4 \overline{) 236} \\ \underline{-20} \phantom{0} \\ 36 \\ \underline{-36} \\ 0 \end{array}$$

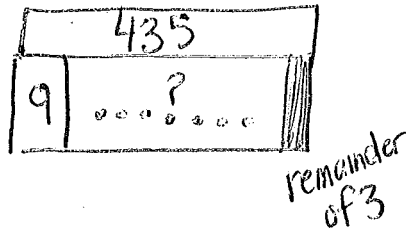
*Mrs. Terrance has 59 crayons  
in each container.*

Name Answer Key

Date \_\_\_\_\_

Solve the following problems. Draw tape diagrams to help you solve. If there is a remainder, shade in a small portion of the tape diagram to represent that portion of the whole.

1. Meneca bought a package of 435 party favors to give to the guests at her birthday party. She calculated that she could give 9 party favors to each guest. How many guests is she expecting?



$$\begin{array}{r} \times 48 \text{ R}3 \\ 9 \overline{) 435} \\ \underline{36} \phantom{0} \\ 75 \\ \underline{72} \\ 3 \end{array}$$

Meneca is expecting 48 guests.

2. 4,000 pencils were donated to an elementary school. If 8 classrooms shared the pencils equally, how many pencils did each class receive?



Each class received 500 pencils.

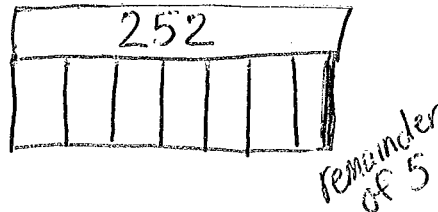
3. 2,008 kilograms of potatoes were packed into sacks weighing 8 kilograms each. How many sacks were packed?



251 sacks were packed.

$$\begin{array}{r} \times 251 \\ 8 \overline{) 2,008} \\ \underline{+6} \phantom{0} \\ 40 \\ \underline{40} \\ 8 \\ \underline{8} \\ 0 \end{array}$$

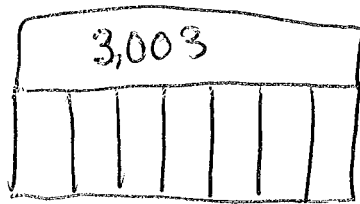
4. A baker made 7 batches of muffins. There were a total of 252 muffins. If there were the same number of muffins in each batch, how many muffins were in a batch?



34 muffins were in a batch.

$$\begin{array}{r} \times 34 \text{ R } 5 \\ 7 \overline{) 252} \\ \underline{21} \phantom{00} \\ 232 \phantom{00} \\ \underline{28} \phantom{00} \\ 5 \phantom{00} \end{array}$$

5. Samantha ran 3,003 meters in 7 days. If she ran the same distance each day, how far did Samantha run in 3 days?



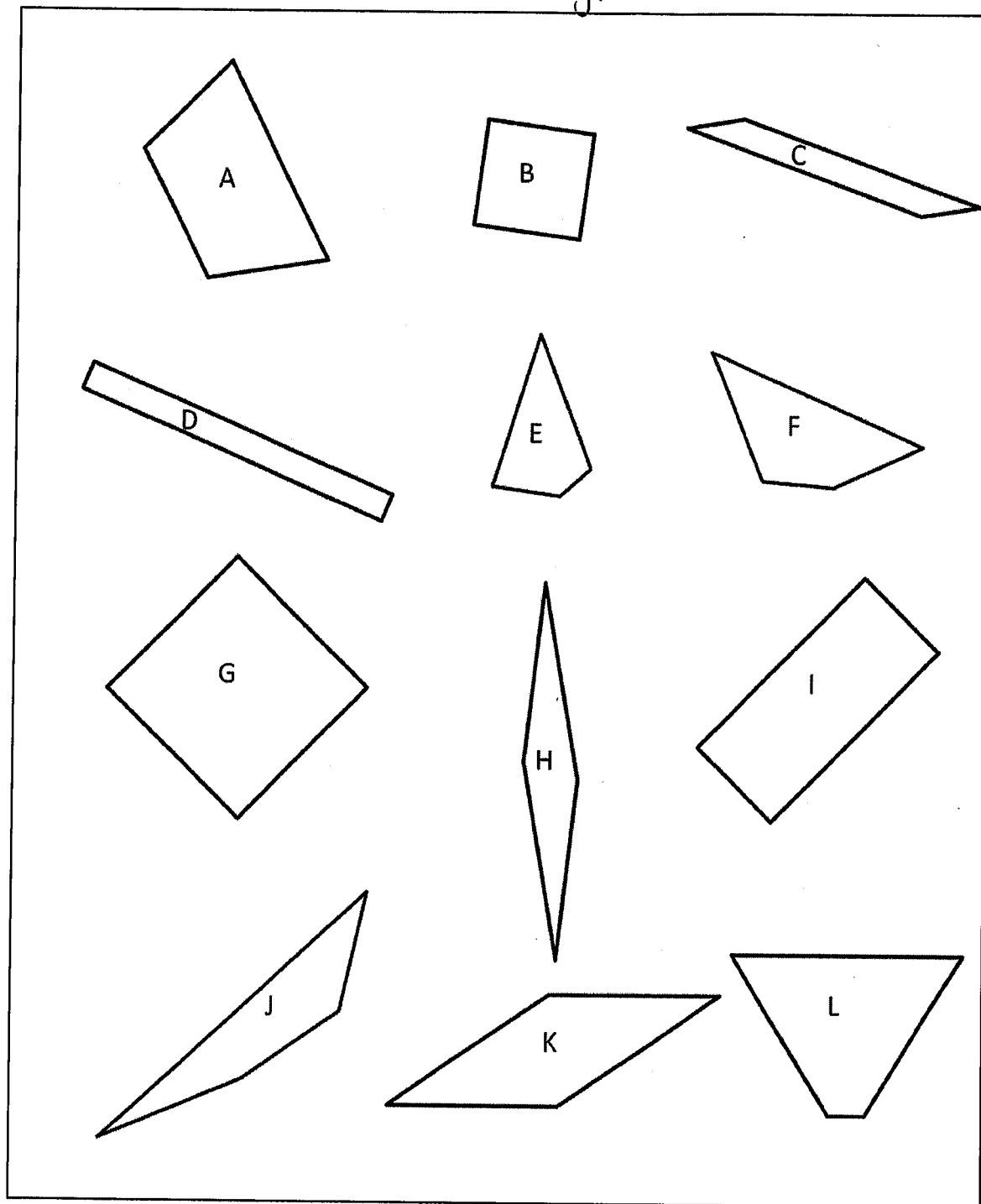
$$\begin{array}{r} 429 \\ \times 3 \\ \hline 1,287 \end{array}$$

$$\begin{array}{r} 429 \\ 7 \overline{) 3,003} \\ \underline{28} \phantom{00} \\ 20 \phantom{00} \\ \underline{14} \phantom{00} \\ 63 \phantom{00} \\ \underline{63} \phantom{00} \\ 0 \phantom{00} \end{array}$$

Samantha ran 1,287 meters in 3 days

Attributes - Number of Sides  
Length of Sides  
Size of Angle

Right Angle



Shapes - Quadrilateral  
Rhombus  
Square

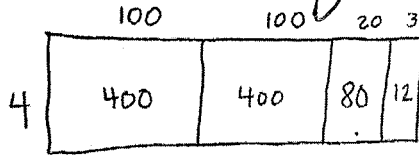
Rectangle  
Parallelogram  
Trapezoid

Name \_\_\_\_\_

Date \_\_\_\_\_

*Answer Key*

1. Ursula solved the following division problem by drawing an area model.



- a. What division problem did she solve?

$$892 \div 4 = 223$$

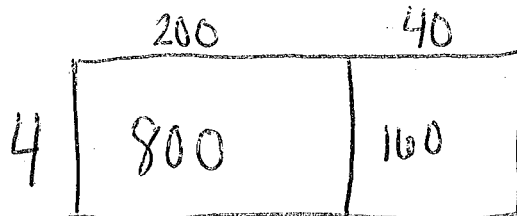
- b. Show a number bond to represent Ursula's area model and represent the total length using the distributive property.

$$(400 \div 4) + (400 \div 4) + (80 \div 4) + (12 \div 4)$$

$$= 100 + 100 + 20 + 3$$

$$= 223$$

2. a. Solve  $960 \div 4$  using the area model. There is no remainder in this problem.



$$960 \div 4 = 240$$

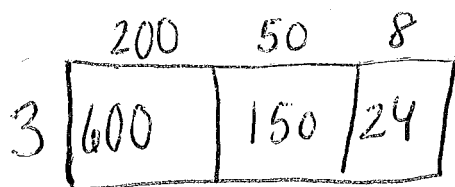
- b. Draw a number bond and use the long division algorithm to record your work from (a).

$$(800 \div 4) + (160 \div 4)$$

$$= 200 + 40$$

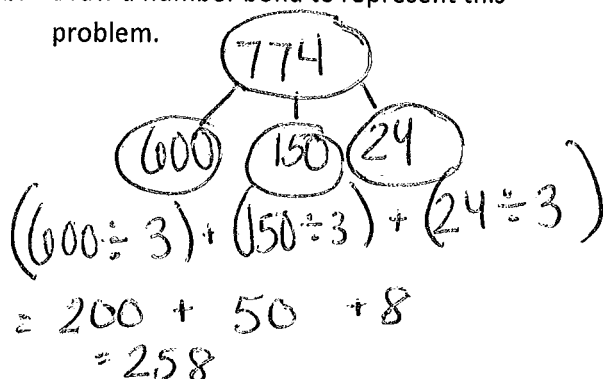
$$= 240$$

3. a. Draw an area model to solve  $774 \div 3$ .



$$774 \div 3 = 258$$

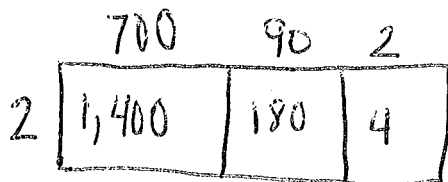
- b. Draw a number bond to represent this problem.



- c. Record your work using the long division algorithm.

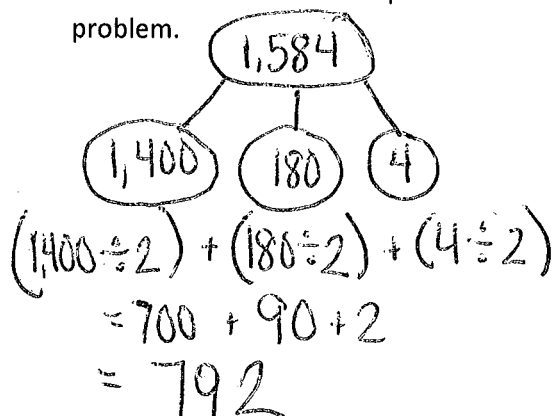
$$\begin{array}{r} 258 \\ 3 \overline{) 774} \\ \underline{-6} \phantom{0} \\ 17 \phantom{0} \\ \underline{-15} \phantom{0} \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

4. a. Draw an area model to solve  $1,584 \div 2$ .



$$1,584 \div 2 = 792$$

- b. Draw a number bond to represent this problem.

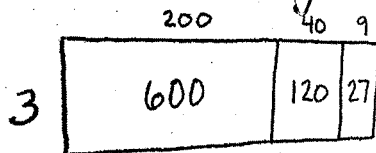


- c. Record your work using the long division algorithm.

$$\begin{array}{r} \times 792 \\ 2 \overline{) 1,584} \\ \underline{-14} \phantom{0} \\ 18 \phantom{0} \\ \underline{-18} \phantom{0} \\ 04 \\ \underline{-4} \\ 0 \end{array}$$

Name Answer Key Date \_\_\_\_\_

1. Anna solved the following division problem by drawing an area model.



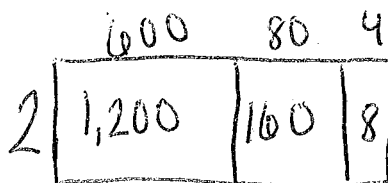
- a. What division problem did she solve?

$$747 \div 3 = 249$$

- b. Show a number bond to represent Anna's area model and represent the total length using the distributive property.

$$\begin{array}{c} (747) \\ \swarrow \quad \downarrow \quad \searrow \\ (600) \quad (120) \quad (27) \\ (600 \div 3) + (120 \div 3) + (27 \div 3) \\ = 200 + 40 + 9 \\ = 249 \end{array}$$

2. a. Draw an area model to solve  $1,368 \div 2$ .



- b. Draw a number bond to represent this problem.

$$\begin{array}{c} (1368) \\ \swarrow \quad \downarrow \quad \searrow \\ (1,200) \quad (160) \quad (8) \\ (1,200 \div 2) + (160 \div 2) + (8 \div 2) \\ = 600 + 80 + 4 \\ = 684 \end{array}$$

- c. Record your work using the long division algorithm.

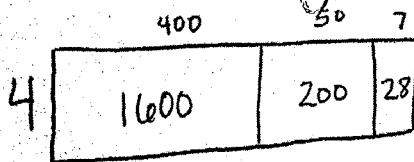
$$\begin{array}{r} \times 684 \\ 2 \overline{) 1368} \\ \underline{+ 2} \phantom{00} \\ 16 \phantom{00} \\ \underline{+ 6} \phantom{00} \\ 08 \phantom{00} \end{array}$$

Name

Answer Key

Date

1. Arabelle solved the following division problem by drawing an area model.



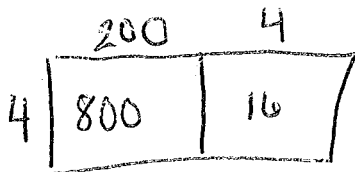
- a. What division problem did she solve?

$$1828 \div 4 = 457$$

- b. Show a number bond to represent Arabelle's area model and represent the total length using the distributive property.

$$\begin{aligned}
 &(1,600 \div 4) + (200 \div 4) + (28 \div 4) \\
 &= 400 + 50 + 7 \\
 &= 457
 \end{aligned}$$

2. a. Solve  $816 \div 4$  using the area model. There is no remainder in this problem.

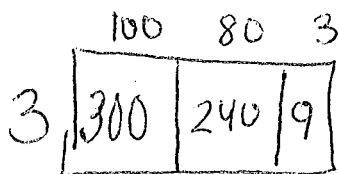


- b. Draw a number bond and use a written method to record your work from (a).

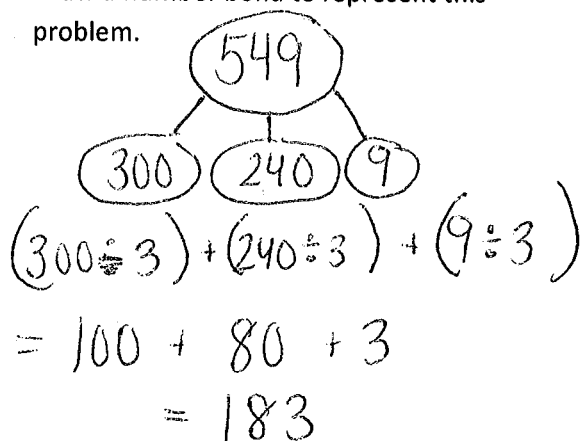
$$\begin{aligned}
 &(800 \div 4) + (16 \div 4) \\
 &= 200 + 4 \\
 &= 204
 \end{aligned}$$



3. a. Draw an area model to solve  $549 \div 3$ .



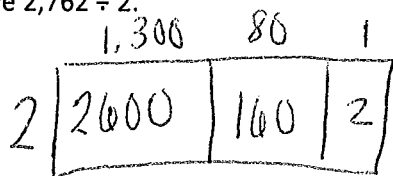
- b. Draw a number bond to represent this problem.



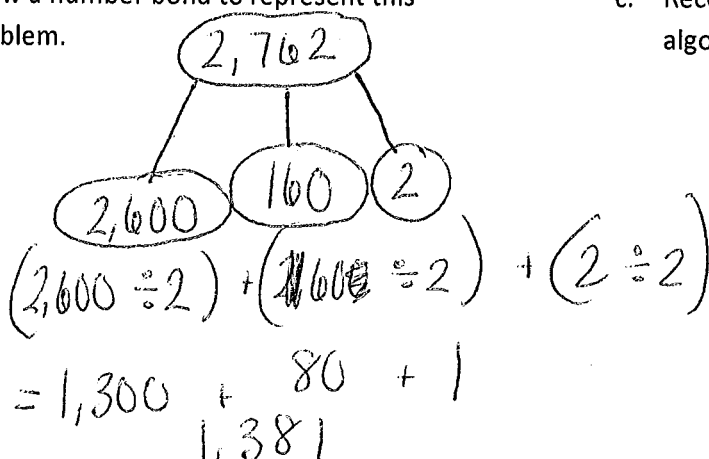
- c. Record your work using the long division algorithm.

$$\begin{array}{r} 183 \\ 3 \overline{)549} \\ \underline{-3} \phantom{00} \\ 24 \phantom{0} \\ \underline{-24} \phantom{0} \\ 9 \\ \underline{-9} \\ 0 \end{array}$$

4. a. Draw an area model to solve  $2,762 \div 2$ .



- b. Draw a number bond to represent this problem.



- c. Record your work using the long division algorithm.

$$\begin{array}{r} 1381 \\ 2 \overline{)2,762} \\ \underline{-2} \phantom{000} \\ 07 \phantom{0} \\ \underline{-6} \phantom{0} \\ 16 \phantom{0} \\ \underline{-16} \phantom{0} \\ 02 \\ \underline{-2} \\ 0 \end{array}$$

Name Answer Key

Date \_\_\_\_\_

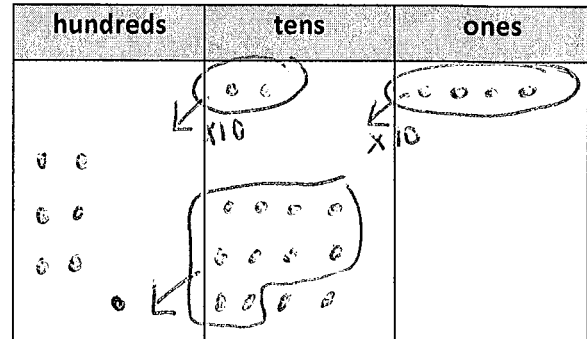
1. Use the associative property to rewrite each expression. Solve using disks and then complete the number sentences.

a.  $30 \times 24$

$$= (3 \times 10) \times 24$$

$$= 3 \times (10 \times 24)$$

$$= 720$$

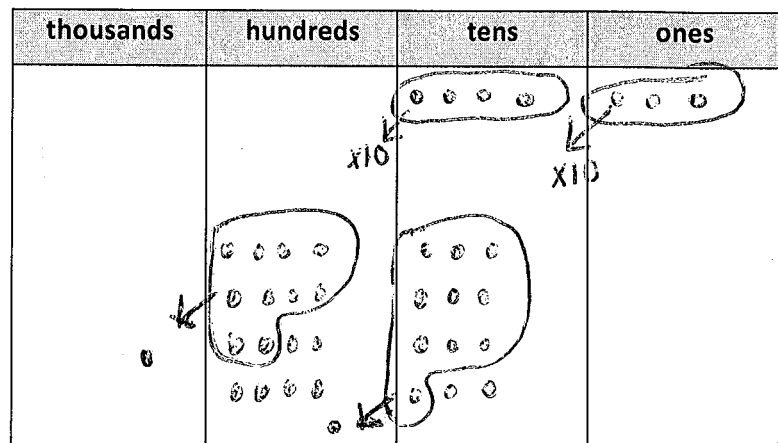


b.  $40 \times 43$

$$= (4 \times 10) \times 43$$

$$= 4 \times (10 \times 43)$$

$$= 1,720$$

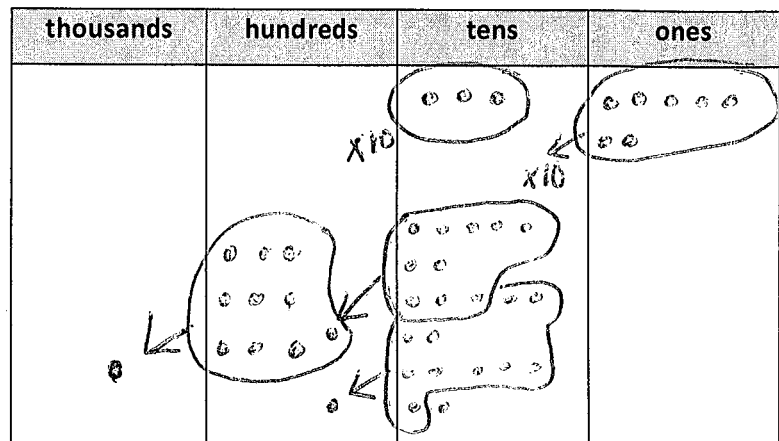


c.  $30 \times 37$

$$= (3 \times 10) \times 37$$

$$= 3 \times (10 \times 37)$$

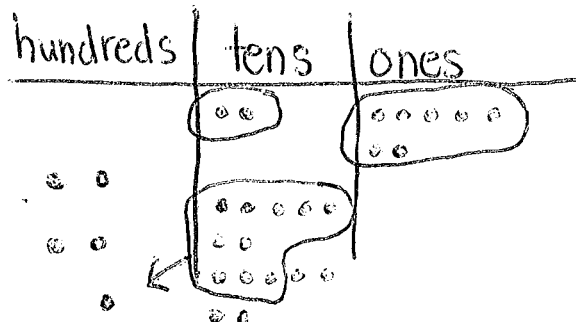
$$= 1,110$$



2. Use the associative property and number disks to solve.

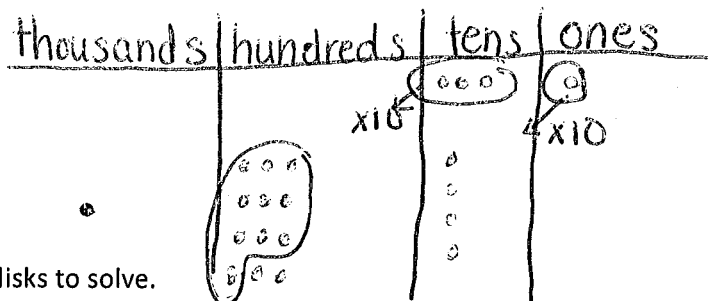
a.  $20 \times 27$

$$\begin{aligned} &= (2 \times 10) \times 27 \\ &= 2 \times (10 \times 27) \\ &= 540 \end{aligned}$$



b.  $40 \times 31$

$$\begin{aligned} &= (4 \times 10) \times 31 \\ &= 4 \times (10 \times 31) \\ &= 1,240 \end{aligned}$$



3. Use the associative property without number disks to solve.

a.  $40 \times 34$

$$\begin{aligned} &= (4 \times 10) \times 34 \\ &= 4 \times (10 \times 34) \\ &= 1,360 \end{aligned}$$

$$\begin{array}{r} 340 \\ \times 4 \\ \hline 1360 \end{array}$$

b.  $50 \times 43$

$$\begin{aligned} &= (5 \times 10) \times 43 \\ &= 5 \times (10 \times 43) \\ &= 2,150 \end{aligned}$$

$$\begin{array}{r} 430 \\ \times 5 \\ \hline 2150 \end{array}$$

4. Use the distributive property to solve the following problems. Distribute the second factor.

a.  $40 \times 34$

$$\begin{aligned} &= (40 \times 30) + (40 \times 4) \\ &= 1,200 + 160 \\ &= 1,360 \end{aligned}$$

b.  $60 \times 25$

$$\begin{aligned} &= (60 \times 20) + (60 \times 5) \\ &= 1,200 + 300 \\ &= 1,500 \end{aligned}$$

Name




Answer Key

Date

- Use the associative property to rewrite each expression. Solve using disks and then complete the number sentences.

a.  $20 \times 41 =$

$$\begin{aligned} & \underline{2} \times \underline{10} \times \underline{41} = \\ & = 2 \times (10 \times 41) \\ & = 82 \end{aligned}$$

hundreds	tens	ones
		

82

- Distribute 32 as  $30 + 2$  and solve.

$60 \times 32$