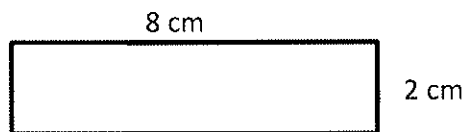


Name Key

Date _____

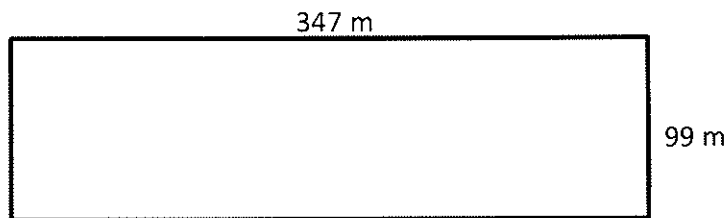
1. Determine the area and perimeter of the rectangle. Include labels.



$$P = \underline{20 \text{ cm}} \quad A = \underline{16 \text{ sq. cm}}$$

$$8 + 2 + 8 + 2 = 20 \quad 8 \times 2 = 16$$

2. Determine the perimeter of the rectangle. Include a label.



$$\begin{array}{r} 347 \\ + 99 \\ \hline 446 \end{array} \quad \begin{array}{r} 446 \\ + 446 \\ \hline 892 \end{array}$$

$$P = 892 \text{ m}$$

3. A rectangle with whole number side lengths has an area of 24 square centimeters and a perimeter of 22 centimeters. Find the length and width of the rectangle.

$$L \times W = 24 \quad 3 \times 8 = 24$$

$$L + L + W + W = 22 \quad 3 + 3 + 8 + 8 = 22$$

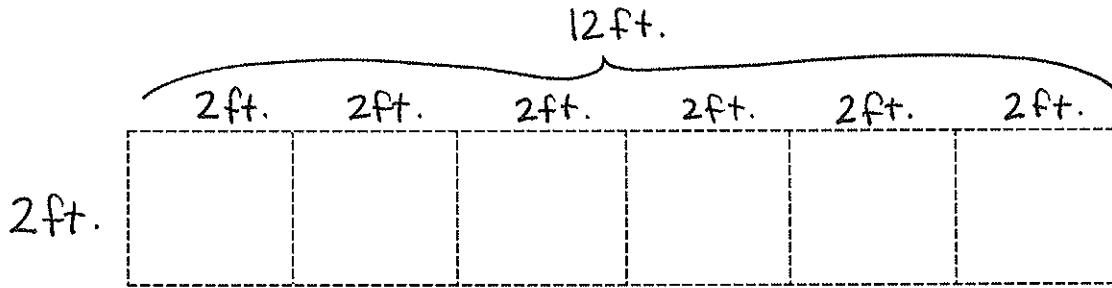
$$L = 3 \text{ cm} \quad W = 8 \text{ cm}$$

Name Key

Date _____

1. A balance beam at a playground is 2 feet wide. It is 6 times as long as it is wide.

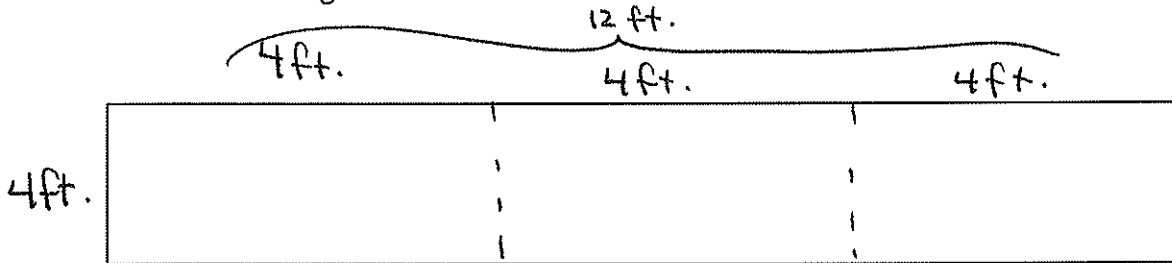
a. Label the diagram with the dimensions of the balance beam.



b. Find the perimeter of the balance beam. $P = \underline{28 \text{ ft.}}$

2. A blanket is 4 feet wide. It is 3 times as long as it is wide.

a. Draw a diagram of the blanket and label its dimensions.



b. Find the perimeter and area of the blanket.

$P = \underline{32 \text{ ft.}}$ $A = \underline{48 \text{ sq. ft.}}$

$16 + 16 = 32$

$4 \times 12 = 48$

Name Key

Date _____

1. Complete the following equations.

a. $5 \times 10 = \underline{50}$

b. $\underline{100} \times 5 = 500$

c. $5,000 = \underline{5} \times 1,000$

d. $10 \times 2 = \underline{20}$

e. $\underline{100} \times 20 = 2,000$

f. $2,000 = 10 \times \underline{20000}$

g. $100 \times 18 = \underline{1800}$

h. $\underline{320} = 10 \times 32$

i. $4,800 = \underline{48} \times 100$

j. $60 \times 4 = \underline{240}$


k. $5 \times 600 = \underline{3000}$

l. $8,000 \times 5 = \underline{40000}$

Name Key

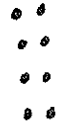
Date _____

Draw number disks to represent the value of the following expressions.

hundreds	tens	ones
		

1. $4 \times 200 = \underline{800}$

4 times 2 hundreds is 8 hundreds.

thousands	hundreds	tens	ones
			

2. $4 \times 2,000 = \underline{8,000}$

4 times 2 thousands is 8 thousands.

3. Find the product.

a. $30 \times 3 =$ <u>90</u>	b. $8 \times 20 =$ <u>160</u>	c. $6 \times 400 =$ <u>2,400</u>	d. $2 \times 900 =$ <u>1,800</u>
e. $8 \times 80 =$ <u>640</u>	f. $30 \times 4 =$ <u>120</u>	g. $500 \times 6 =$ <u>3,000</u>	h. $8 \times 5,000 =$ <u>40,000</u>

4. Bonnie worked for 7 hours each day for 30 days. How many hours did she work altogether? $30 \times 7 = 210$ Bonnie worked 210 hours.

Name Key

Date _____

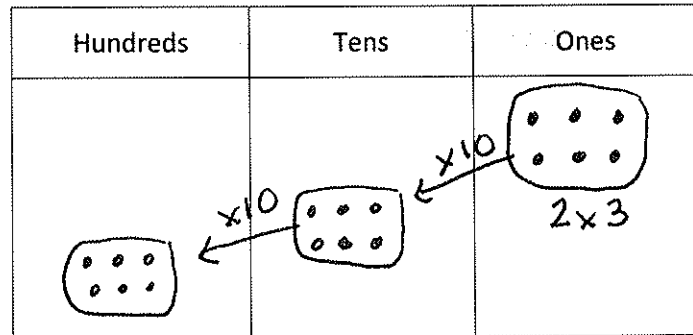
Represent the following problem by drawing disks in the place value chart.

1. To solve 20×30 , think:

$(2 \text{ tens}) \times (3 \text{ tens}) =$

$2 \times 3 \times 10 \times 10 =$

$20 \times 30 = \underline{600}$



2. Use the word form of the numbers to find the products.

a. $2 \text{ tens} \times 3 \text{ tens} = \underline{6} \text{ hundreds}$

$20 \times 30 = \underline{600}$

b. $80 \times 20 = \underline{1,600}$

8 tens \times 2 tens = 16 hundreds

3. Every night, Ellen reads 40 pages. How many pages total does she read at night during the 30 days of November? $30 \times 40 = 1,200$

Ellen read 1,200 pages in the month of November.

Name Key

Date _____

1. Show partial products with disks on the place value chart, and record the partial products vertically.

a. 6×41

hundreds	tens	ones
		••••• •
••	•••••	

$$\begin{array}{r}
 41 \\
 \times 6 \\
 \hline
 6 \quad (6 \times 1) \\
 + 240 \quad (6 \times 40) \\
 \hline
 246
 \end{array}$$

b. 7×31

hundreds	tens	ones
		•••
••	•	

$$\begin{array}{r}
 71 \\
 \times 3 \\
 \hline
 3 \quad (3 \times 1) \\
 + 210 \quad (3 \times 70) \\
 \hline
 213
 \end{array}$$

Name Key

Date _____

2. Represent the following expressions with disks that match the partial products.

a. 4×513

thousands	hundreds	tens	ones
		●	● ●
		● ● ● ●	
● ●			

$$\begin{array}{r}
 513 \\
 \times \quad 4 \\
 \hline
 12 \quad (4 \times 3) \\
 40 \quad (4 \times 10) \\
 + 2000 \quad (4 \times 500) \\
 \hline
 2,052
 \end{array}$$

b. $3 \times 1,054$

thousands	hundreds	tens	ones
		●	● ●
	●	● ● ● ●	
● ● ●			

$$\begin{array}{r}
 1054 \\
 \times \quad 3 \\
 \hline
 12 \quad (3 \times 4) \\
 150 \quad (3 \times 50) \\
 0 \quad (3 \times 0) \\
 + 3000 \quad (3 \times 1000) \\
 \hline
 3,162
 \end{array}$$

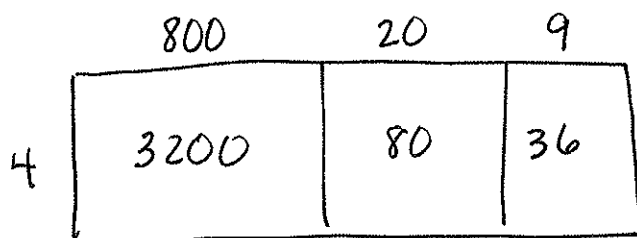
Name Key

Date _____

1. Solve any way.

$$829 \times 4$$

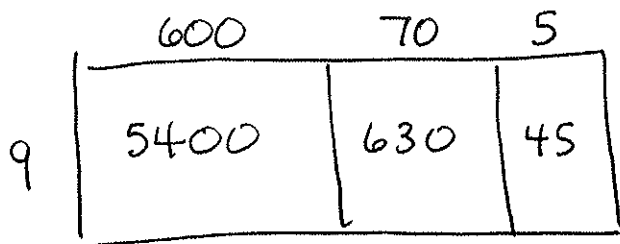
$$\begin{array}{r} 829 \\ \times 4 \\ \hline 36 \\ 80 \\ 3200 \\ \hline 3,316 \end{array}$$



2. The monthly school newspaper is 9 pages long. Mrs. Smith needs to print 675 copies. How many sheets of paper will she use?

$$675$$

$$\begin{array}{r} 675 \\ \times 9 \\ \hline 45 \\ 630 \\ 5400 \\ \hline 6,075 \end{array}$$

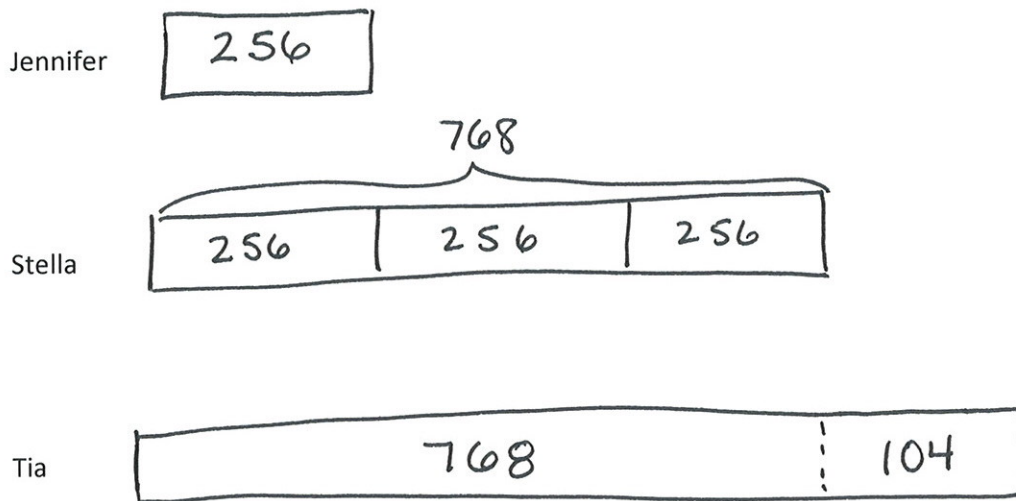


Mrs. Smith will use 6,075 sheets of paper.

Name Key

EXIT TICKET

1. Jennifer has 256 pink beads. Stella has 3 times as many beads as Jennifer. Tia has 104 more beads than Stella. How many beads does Tia have?



$$\begin{array}{r} 768 \\ + 104 \\ \hline 872 \end{array}$$

Tia has 872 beads.

Name Key

Date _____

Show the division using disks. Check your quotient and remainder by using multiplication and addition.

1. $5 \div 3$

Ones
1 1 1 0 0
(0)
.
.

quotient = 1

remainder = 2

Check Your Work
3
$\times 1$

3
$+ 2$

5

2. $65 \div 3$

Tens	Ones
1 1 1 1 1 1	1 1 1 0 0
(2 0)	(1)
.	.
.	.

quotient = 21

remainder = 2

Check Your Work
21
$\times 3$

63
$+ 2$

65

Name Key

Date _____

Show the division using disks. Check your quotient by using multiplication and addition.

1. $5 \div 4$

Ones

quotient = 1

remainder = 1

Check Your Work

$$\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \\ + 1 \\ \hline 5 \end{array}$$

2. $56 \div 4$

Tens	Ones

quotient = 14

remainder = 0

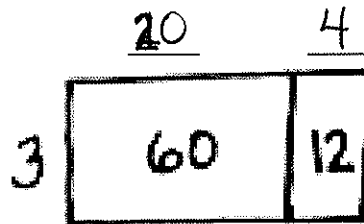
Check Your Work

$$\begin{array}{r} 14 \\ \times 4 \\ \hline 16 \\ + 40 \\ \hline 56 \end{array} \left. \vphantom{\begin{array}{r} 14 \\ \times 4 \\ \hline 16 \\ + 40 \\ \hline 56 \end{array}} \right\} \text{partial products}$$

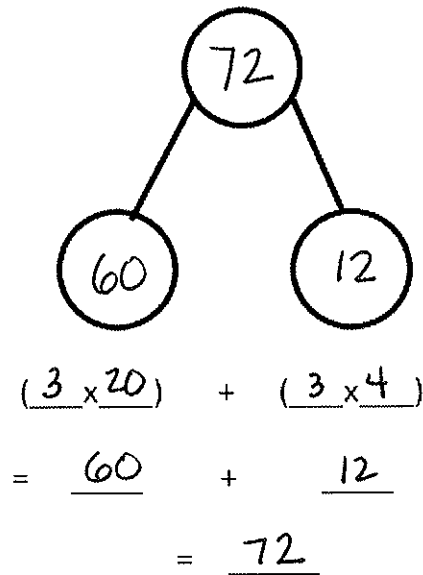
Name Key

Date _____

1. Tony drew the following area model but left off the length measurements. What are the missing numbers?



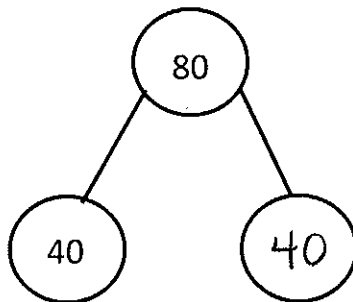
2. Complete the number bond for Tony's problem.



Name Key

Date _____

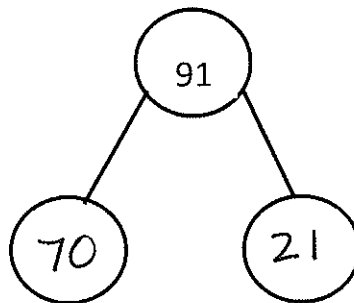
1. Use number bonds to divide greater numbers.



$$\begin{aligned} & (40 \div 4) + (40 \div 4) \\ = & \underline{10} + \underline{10} \\ & = \underline{20} \end{aligned}$$

$$80 \div 4 = \underline{20}$$

2. Decompose the whole into multiples of the divisor to complete the number bonds.



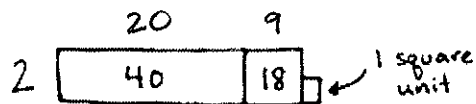
$$\begin{aligned} & (70 \div 7) + (21 \div 7) \\ = & \underline{10} + \underline{3} \\ & = \underline{13} \end{aligned}$$

$$91 \div 7 = \underline{13}$$

Name Key

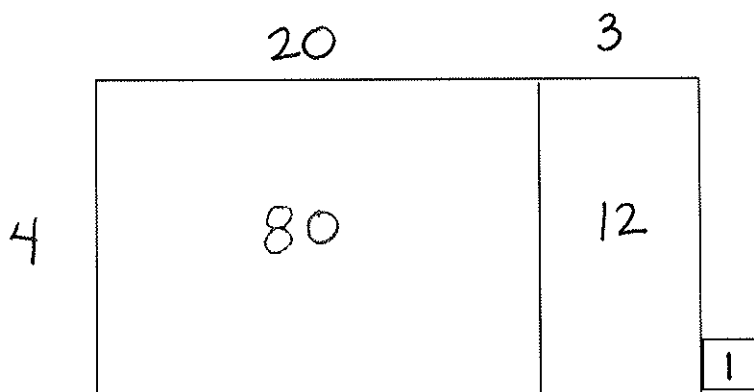
Date _____

1. Kyle drew the following area model to find an unknown length. What division equation did he model?



$$\underline{59} \div \underline{2} = \underline{29} \text{ r } \underline{1}$$

2. Solve $93 \div 4$ using the area model.



$$93 \div 4 = 23 \text{ r } 1$$

Name Key

Date _____

Solve using the Forgiving Method.

1. $93 \div 7$

$$\begin{array}{r}
 13 \text{ r } 2 \\
 7 \overline{) 93} \\
 \underline{-70} \quad 10 \\
 23 \\
 \underline{-21} \quad 3 \\
 2 \quad \underline{3} \\
 13
 \end{array}$$

2. $99 \div 8$

$$\begin{array}{r}
 12 \text{ r } 3 \\
 8 \overline{) 99} \\
 \underline{-88} \quad 11 \\
 11 \\
 \underline{-8} \quad 1 \\
 3 \quad \underline{1} \\
 12
 \end{array}$$

Name Key Date _____

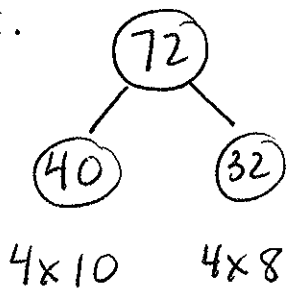
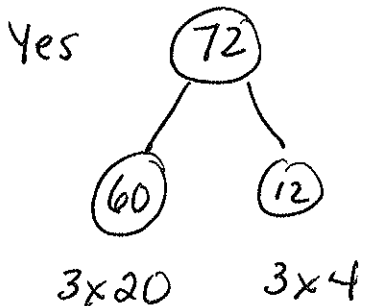
Record the factors of the given numbers as multiplication sentences and as a list in order from least to greatest. Classify each as prime (P) or composite (C).

	Multiplication Sentences	Factors	Prime (P) or Composite (C)
a.	9 1×9 3×3	The factors of 9 are: 1, 3, 9	C
b.	12 1×12 2×6 3×4	The factors of 12 are: 1, 2, 3, 4, 6, 12	C
c.	19 1×19	The factors of 19 are: 1, 19	P

Name Key

Date Exit Ticket

1. Explain your thinking or use division to answer the following.

<p>a. Is 2 a factor of 34?</p> <p>Yes, it is even.</p>	<p>b. Is 3 a factor of 34?</p> <p>No.</p> <p>$3 \times 11 = 33$</p> <p>$3 \times 12 = 36$</p>
<p>c. Is 4 a factor of 72?</p> <p>Yes.</p> 	<p>d. Is 3 a factor of 72?</p> <p>Yes</p> 

Name Key

Date _____

1. Fill in the unknown multiples of 11.

$5 \times 11 = \underline{55}$

$6 \times 11 = \underline{66}$

$7 \times 11 = \underline{77}$

$8 \times 11 = \underline{88}$

$9 \times 11 = \underline{99}$

2. Complete the pattern of multiples by skip-counting.

7, 14, 21, 28, 35, 42, 49, 56, 63, 70

3.

- a. List the numbers that have 18 as a multiple.

1, 2, 3, 6, 9, 18

- b. What are the factors of 18?

1, 2, 3, 6, 9, 18

- c. Are your two lists the same? Why or why not?

Yes. Factors of 18 are numbers that you can multiply to get 18, and that means you would hit 18 if you skip-counted by the factors. That's another way to describe a multiple.

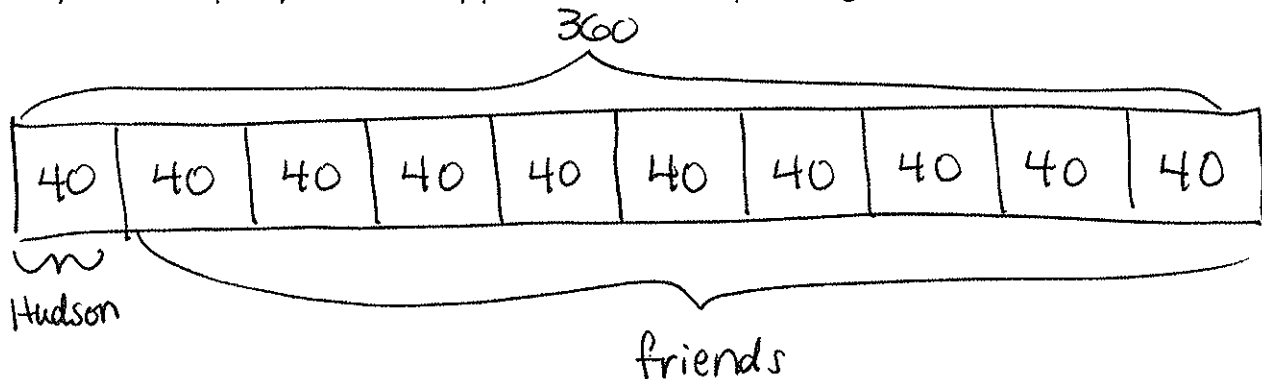
Name Key

Date _____

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

<p>a. $600 \div 3 = 200$</p> <p>6 hundreds $\div 3 =$</p> <p><u>2</u> hundreds</p>	<p>b. $1,200 \div 6 = 200$</p> <p>12 hundreds $\div 6 =$</p> <p>2 hundreds</p>
<p>c. $2,100 \div 7 = 300$</p> <p>21 hundreds $\div 7 =$</p> <p>3 hundreds</p>	<p>d. $3,200 \div 8 = 400$</p> <p>32 hundreds $\div 8 =$</p> <p>4 hundreds</p>

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?



Each person got 40 pennies.

Name Key

Date _____

1. Divide using the forgiving method.

<p>a. $776 \div 2$</p> $ \begin{array}{r} 388 \\ 2 \overline{)776} \\ \underline{-600} \quad 300 \\ 176 \\ \underline{-100} \quad 50 \\ 76 \\ \underline{-50} \quad 25 \\ 26 \\ \underline{-26} \quad 13 \\ 0 \quad 388 \end{array} $	<p>b. $596 \div 3$</p> $ \begin{array}{r} 198 \text{ r}2 \\ 3 \overline{)596} \\ \underline{-300} \quad 100 \\ 296 \\ \underline{-270} \quad 90 \\ 26 \\ \underline{-24} \quad 8 \\ 2 \quad 198 \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?

$$\begin{array}{r}
 32 \\
 4 \overline{)128} \\
 \underline{120} \quad 30 \\
 8 \\
 \underline{-8} \quad 2 \\
 0 \quad 32
 \end{array}$$

One carton of milk will provide 32 servings that are 4 oz. each.

Name Key

Date _____

1. Divide using the Forgiving Method.

<p>a. $1,770 \div 3$</p> $ \begin{array}{r} 590 \\ 3 \overline{)1770} \\ \underline{-1500} \quad 500 \\ 270 \\ \underline{-270} \quad 90 \\ 0 \quad \underline{590} \end{array} $	<p>b. $8,470 \div 5$</p> $ \begin{array}{r} 1694 \\ 5 \overline{)8470} \\ \underline{-5000} \quad 1000 \\ 3470 \\ \underline{-3000} \quad 600 \\ 470 \\ \underline{-450} \quad 90 \\ 20 \\ \underline{-20} \quad 4 \\ 0 \quad \underline{1694} \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?

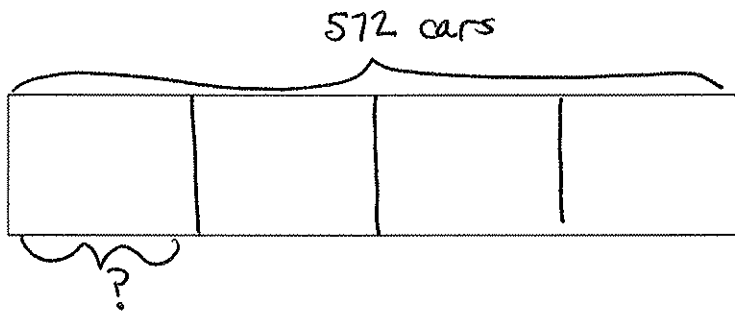
$$\begin{array}{r}
 446 \\
 4 \overline{)1784} \\
 \underline{-1600} \quad 400 \\
 184 \\
 \underline{-160} \quad 40 \\
 24 \\
 \underline{-24} \quad 6 \\
 0 \quad \underline{446}
 \end{array}$$

There were 446 of each type of stamp.

Name Key Date _____

Draw tape diagrams to solve. Identify if the group size or the number of groups is unknown.

1. 572 cars were parked in a parking garage. The same number of cars parked on each floor. If there were 4 floors, how many cars were parked on each floor?



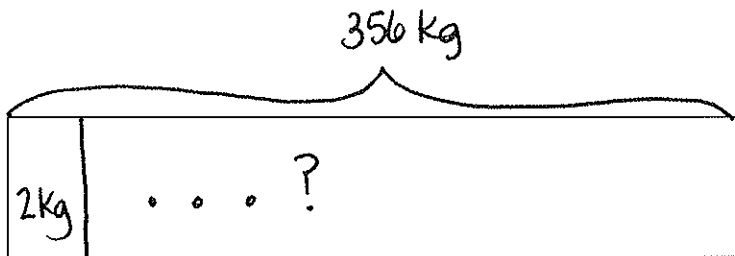
$$\begin{array}{r}
 143 \\
 4 \overline{) 572} \\
 \underline{-400} \quad 100 \\
 172 \\
 \underline{-160} \quad 40 \\
 12 \\
 \underline{-12} \quad 3 \\
 0 \quad 143
 \end{array}$$

X group size unknown

_____ number of groups unknown

There were 143 cars on each floor.

2. 356 kg of flour were packed into sacks holding 2 kg each. How many sacks were packed?



$$\begin{array}{r}
 178 \\
 2 \overline{) 356} \\
 \underline{-200} \quad 100 \\
 156 \\
 \underline{-140} \quad 70 \\
 16 \\
 \underline{-16} \quad 8 \\
 0 \quad 178
 \end{array}$$

_____ group size unknown

X number of groups unknown

There were 178 sacks packed.

Name Key

Date _____

Use the forgiving method of division to solve.

- Mr. Foote needs exactly 6 folders for each fourth grade student at Hoover Elementary School. If he bought 726 folders, how many students will get the folders?

121 students got the folders.

$$\begin{array}{r}
 121 \\
 6 \overline{) 726} \\
 \underline{-600} \quad 100 \\
 126 \\
 \underline{-120} \quad 20 \\
 6 \\
 \underline{-6} \quad 1 \\
 0 \quad 121
 \end{array}$$

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

Mrs. Terrance has 59 crayons in each container.

$$\begin{array}{r}
 59 \\
 4 \overline{) 236} \\
 \underline{-200} \quad 50 \\
 36 \\
 \underline{-36} \quad 9 \\
 0 \quad 59
 \end{array}$$

Name Key

EXIT TICKET

Use an area model to represent the following expressions in word form. Record the partial products and solve.

1. 30×93

	90	3
30	$\begin{array}{l} \underline{3} \text{ tens} \times \underline{9} \text{ tens} = \\ \underline{27} \text{ hundreds} = \\ \underline{2700} \end{array}$	$\begin{array}{l} \underline{3} \text{ tens} \times \underline{3} = \\ \underline{9} \text{ tens} = \\ \underline{90} \end{array}$

$$\begin{array}{r} 30 \\ \times 93 \\ \hline 90 \\ + 2700 \\ \hline 2,790 \end{array}$$

Draw an area model to represent the following expressions in standard form. Record the partial products vertically and solve.

2. 40×7

		7
40	0	280

$$\begin{array}{r} 40 \\ \times 7 \\ \hline 280 \end{array}$$

Name Key

Date _____

Draw an area model to solve. Record the partial products vertically and solve.

1. 26×43

	40	3
20	800	60
6	240	18

$$\begin{array}{r}
 26 \\
 \times 43 \\
 \hline
 18 \\
 \hline
 60 \\
 \hline
 240 \\
 \hline
 + 800 \\
 \hline
 1118
 \end{array}$$

Solve using four partial products.

2. 17×55

$$\begin{array}{r}
 17 \\
 \times 55 \\
 \hline
 35 \\
 \hline
 50 \\
 \hline
 350 \\
 \hline
 + 500 \\
 \hline
 935
 \end{array}$$

Name Key

EXIT TICKET

1. Solve 43×22 using 4 partial products and 2 partial products.

	20	2
40	800	80
3	60	6

43	
× 22	
_____	6
80	_____
60	_____
800	_____
946	

	20	2
43	860	86

43	
× 22	
_____	86
860	_____
946	

2. Solve using the area model. Add the columns to record two partial products.

64×15

	10	5
60	600	300
4	40	20
	<u>640</u>	<u>320</u>

64	
× 15	
_____	320
+ 640	_____
960	