May 2024

Dear Fifth-Graders,

It has been a pleasure to be your math teacher this year. As you enjoy a well-deserved summer vacation, I want to remind you of the importance of keeping your math skills sharp. This packet is meant to give you weekly practice of your math skills. Each page covers concepts from each of our major units. I suggest you complete one page each week. It is not in your best interest to finish this packet in a couple of days. Your math notebook will be a great resource.

Mrs. Nida, the 5th grade math teacher, will expect this completed packet from you on the first day back to school. Your work should be completed neatly. You must show your work. If you can't show your work on the pages provided, please attach any scratch paper you use. Make sure you complete all of the math boxes. Don't forget to use your math notebook to help you. You will also find a copy of this packet on the Holland Hall website.

Thank you for working so hard all year. I appreciate the effort you put forth in my class everyday. Please feel free to email me over the summer if you have any questions.

Have a great summer,

Ms. Molloy
smolloy@hollandhall.org

Once you've completed your summer work, please have your parents answer the following:

My child completed his/her summer work: (Please select one)

_____ Mostly independent

_____ Adult/sibling help was required to be successful

_____ My child worked with a tutor to complete summer work

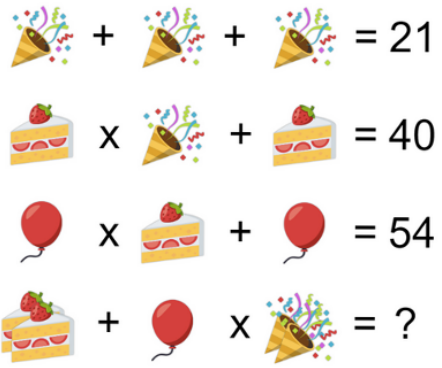
Tutor's Name_____

Week of May 27 Show your work.

Round each of the following numbers to the **nearest thousand.** 5,492 _____ 62,138 _____ 874,424 _____ 2,215,560 _____	Find the sum. 8,329 + 7,547= 343,819 + 23,422=
Find the difference. 15,878 – 5,689= 41,652 – 2,797=	Find the product. 54 x39 428 x 76 937 x 83
Problem Solving Pip the squirrel gathers 9 acorns every morning and twice that many during the rest of the day. In 7 days, how many acorns will Pip have?	Divide 272 ÷ 3 431 ÷ 4
Reduce the following fractions to simplest form. $\frac{2}{4}$ $\frac{10}{25}$ $\frac{3}{9}$ $\frac{10}{16}$ $\frac{8}{14}$ $\frac{9}{21}$	Find the perimeter and area of the a rectangle with a length of 14in and width of 8in.  Perimeter= Area=

Week of June 3 Show your work.

Write the following numbers in expanded form: 54,830_____ _____ 345,704_____ _____ _____	Addition: Which expression below does NOT have a sum of 84? A. 62 + 22 B. 54 + 30 C. 45 + 39 D. 34 + 15
Find the difference. 846 – 38= 1347 – 659=	Find the product. 97 x 7 924 x 27 240 x 96
There are 54 fourth-grade students. They are planning to go to the zoo. 4 teachers and 10 parents are going as well. The zoo charges $3.00 for each student and $5.00 for each adult. What is the total cost of the zoo trip?	Divide 363 ÷ 4 465 ÷ 8

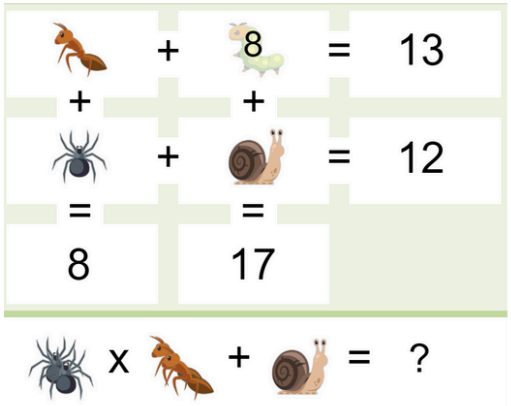
Draw a bar model to find the fraction of the whole number. ¾ of 24=	

Week of June 10

Show your work.

Write 3,492,721 in word form. _____ _____ _____ _____	Find the sum. 867 + 795= 3452 + 1283=
Find the difference. 1578 – 689= 1728 – 919=	Use the digits 1 to 9, at most one time each, to make 5 composite numbers. □,□□,□□, □□,□□
Terry is making cakes with strawberry topping. She has 39 strawberries that she wants to place equally among 5 cakes. If she does this correctly, how many strawberries will she have left?	Divide 88 ÷ 7 792 ÷ 4

Benchmark Fractions-			
3/8 is closer to	0	½	1
8/10 is closer to	0	½	1
5/6 is closer to	0	½	1
1/7 is closer to	0	½	1
5/9 is closer to	0	½	1



Week of June 17

Show your work.

Write the **value** of the **4** in each of the following numbers. 5,492 _____ 42,138 _____ 874,921 _____ 9,415,863 _____	Round each number to the greatest place then find the sum. 7,819 + 23,921=
Round each number to the hundreds place and then find the difference. 9778 – 8489= 7352 – 4357=	Find the product. 40 x 800 = _____ 7 x 8000= _____ 50 x 60= _____

You get $1 on each odd date in December, and $10 on each date ending in 0. How much money will you get in all?	Divide 853 ÷ 9 597 ÷ 7
Change each improper fraction into a mixed number. $\frac{15}{4}$ $\frac{17}{5}$ $\frac{13}{2}$ $\frac{9}{2}$ $\frac{39}{7}$ $\frac{59}{6}$	Seth bought 10 cases of soda that were priced at 2 for $5. How much money did Seth spend on the soda?

Week of June 24

Show your work.

Write the following numbers in standard form: six million, three hundred fifty eight thousand, seven hundred twenty one _____ four hundred sixty nine thousand, two hundred thirty three _____	Find the sum. 2,678 + 598= 4656 + 753=

Find the missing number.

$$\begin{array}{r} 5,\quad 2\ 6 \\ -\ 3,1\ 5\ 4 \\ \hline 1,8\ 7\ 2 \end{array}$$

Factors–List the factors for each.

20: _____

12: _____

9: _____

36: _____

There are 76 birds on the playground at HH. Later, 58 birds flew away. Ten minutes later, another 19 joined the remaining birds. How many birds are now on the playground?

Divide

920 ÷ 9

899 ÷ 7

Complete each equivalent fraction.

$\frac{\_}{5} = \frac{3}{15}$ $\qquad$ $\frac{\_}{7} = \frac{24}{42}$

$\frac{\_}{4} = \frac{12}{16}$ $\qquad$ $\frac{3}{5} = \frac{\_}{30}$

Linda scored 8 goals during a soccer game. Sue scored 2 times as many goals as Linda. Circle the letter below which shows the total number of goals Sue scored.

Circle the correct answer.

A. The sum of 8 and 2.
B. The product of 8 and 2.
C. The quotient of 16 and 2.
D. The difference of 16 and 8.

Week of July 1 Show your work.

Use the <, >, or = to compare the numbers.

3,573 _____ 3,753

45,921 _____ 54,921

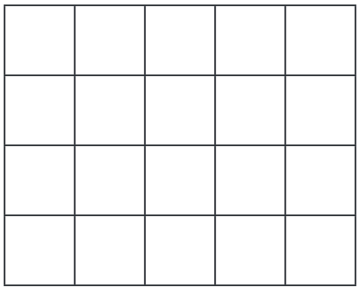
989,452 _____ 999,542

Complete each statement with the correct term.

The _____ is the answer to a multiplication problem.

A number that is multiplied by another number is a _____.

Follow the instructions to color the array. Color half the squares in the array red. Color one-fourth of the squares in the array blue. Color the rest of the squares in the array green.
What fraction of the array is green?



Divide

209 ÷ 8

616 ÷ 3

Comparing Fractions: Write < , >, or =.

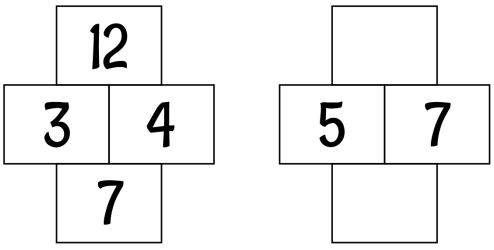
$\frac{1}{3}$ ◯ $\frac{1}{2}$ $\frac{3}{8}$ ◯ $\frac{1}{8}$

$\frac{3}{3}$ ◯ $\frac{5}{5}$ $\frac{1}{4}$ ◯ $\frac{3}{4}$

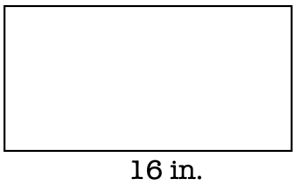
Jamie displayed her baseball cards in 4 rows with 60 cards in each row. Her brother rearranged the cards into 8 equal rows. How many cards are in each row?

Factor Puzzle: Use the pattern to fill in the blanks.

Example



Find the perimeter and area of the following rectangle.



Perimeter=

Area=

Week of July 8 Show your work.

Write the following numbers in expanded form:

92,832_____

_____

349,838_____

_____

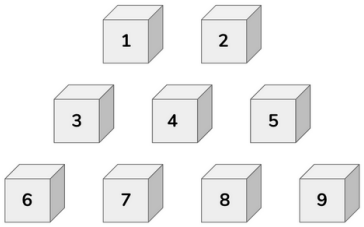
_____

Timothy is 5 years older than Amanda. Amanda's mom is 37 years old. Together, Timothy's and Amanda's ages equal the age of Amanda's mom.

How old is Timothy?_____

How old is Amanda? _____

Arrange these numbered blocks into three equal stacks so that the sum of the numbers displayed in each stack must equal to any other stack.



Find the product.

3 x 9= 8 x 7=

9 x 8= 5 x 3=

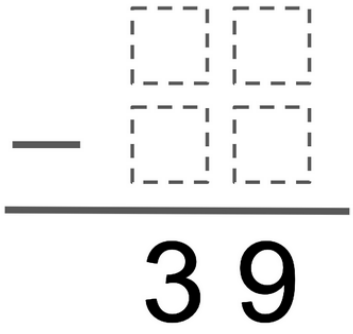
6 x 4= 7 x 9=

2 x 8= 8 x 8=

.

Josie took a straw that was 12 inches long and bent it into a square shape. What is the length of each side?

Using the digits 1 to 9 at most one time each, fill in the boxes to make the difference equal to 39.



Draw a bar model to show ⅔ of 21.

Find the quotient.

42,000 ÷ 6=

320,000 ÷ 4=

450,000 ÷ 9=

500 ÷ 5=

Week of July 15

Show your work.

Round each of the following numbers to the **nearest hundred.** 7,462 _____ 68,438 _____ 874,924 _____ 6,515,360 _____	Using the digits 1 to 9 at most one time each, fill in the boxes to create the closest possible sum to 100. ☐☐ + ☐☐ + ☐☐
Find the difference. 87,351 – 66,823=	Find the product. 86 x33 748 x 26 838 x 63
Sara has 3 coins in her pocket with a total value more than 10¢ and less than 20¢. What coins might Sara have in her pocket?	How many dining tables are needed for 58 people, if 6 people can sit at a table?
How many eighths make one whole? How many fifths make two wholes?	Draw and label a rectangle with an area of 32 square units and a perimeter of 36 units.

Week of July 22

Show your work.

Write a 7 digit number with a 6 in the tens place, a 4 in the hundred thousands place, a 2 in the millions place, a 9 in the ones place, a 1 in the hundreds, a 3 in the ten thousands place, and a 5 in the thousands place.

$5 \times \_\_\_\_\_ = 20$

$\_\_\_\_\_ \times 3 = 24$

$4 + \_\_\_\_\_ = 14$

$18 - \_\_\_\_\_ = 9$

$4 \times \_\_\_\_\_ = 28$

$8 \times 4 = \_\_\_\_\_$

$16 - \_\_\_\_\_ = 9$

$\_\_\_\_\_ + 8 = 13$

$8 \times 2 = \_\_\_\_\_$

$7 \times \_\_\_\_\_ = 35$

Solve 38 x 9 using the partial products method.

Divide

753 ÷ 7

533 ÷ 5

What two numbers have a sum of 15 and a product of 54?

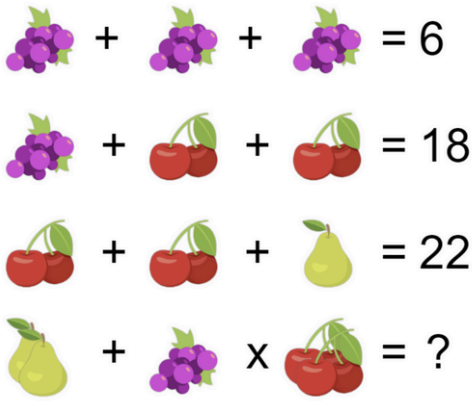
What two numbers have a product of 48 and a difference of 2?

Using the digits 1 to 9 at most one time each, fill in the boxes to make a true statement.

□ ÷ □ = □ ÷ □ = □

You have a plate of 16 doughnuts. ½ of them are chocolate. ⅛ of them are strawberry and the rest are vanilla. How many are vanilla?

What is the value of the last row?



Week of July 29 **Show your work.**

Write the following numbers in order from least to greatest.

1,093 1,983 1,211 1,519

_____

8,730 8,073 8,703

_____

There are 32 students in Ms. Molloy's fourth grade class. If she made 2 equal groups of students, there would be 16 students in each group. What are the other ways she could divide the students into equal groups? Show all your work.

Using the digits 1 to 9 at most one time each, fill in the boxes to make the product as close to 7,000 as possible.

☐☐
x ☐☐
_____

Circle all the multiples of the number.

2	5	6	7	8	14	21	10
7	22	33	21	14	16	42	35
3	21	35	18	36	44	12	29

One of the windows is 15 inches by 32 inches. Another window is 30 inches by 16 inches. Alice says the windows have the same area. Do you agree or disagree? Why?

Divide Mentally

27 ÷ 5=_____ 31 ÷ 6=_____

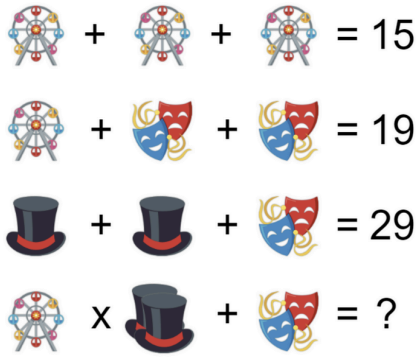
74 ÷ 9=_____ 28 ÷ 8=_____

46 ÷ 7=_____ 55 ÷ 9=_____

Write each of the following fractions where they belong on the number line below.

$\frac{9}{10}$ $\frac{1}{4}$ $\frac{2}{5}$ $\frac{2}{3}$

What is the value of the last row?



SNAKE

Fill each empty box, in order, combining the numbers from the previous 2 boxes.

4			÷2				÷3	
×3		-2		×3		+8		×2
+0		×2		+1		×2		+12
	÷3				÷5			20

3	×2		+0		÷2		×5	
								-7
	÷2		×2		+0	8		
+2								÷2
	×3		÷5		-6		×4	

EQUATO

Use each number once to complete the equations. Read equations left to right and top to bottom.

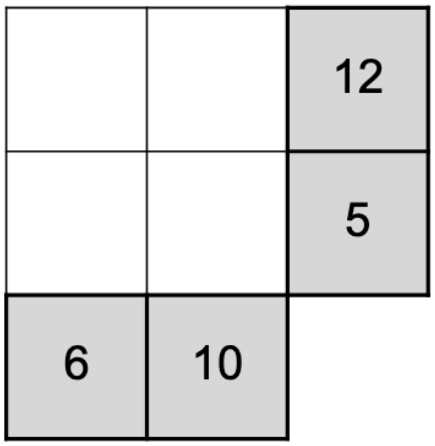
NUMBER BANK

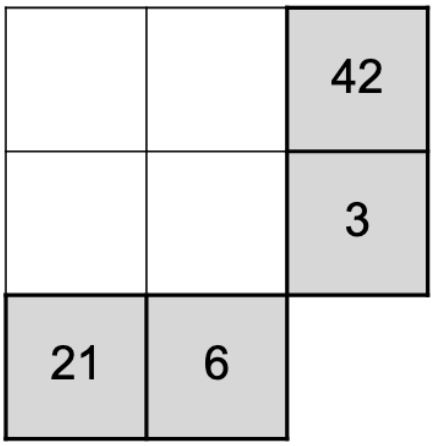
1 2 3 4 5 6 7 8

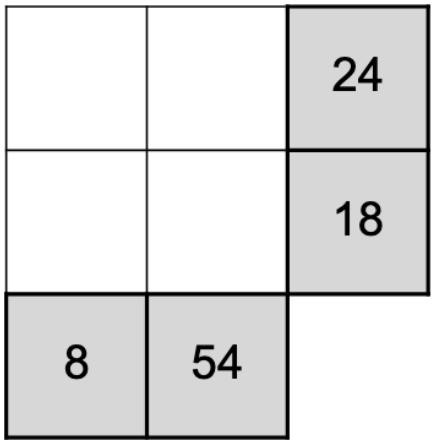
	=	9	+		−	5
−		−		+		×
	=		−	6	×	
+		+		−		+
	=	7	−	4	+	1
=		=		=		=
9	−	8	+		=	

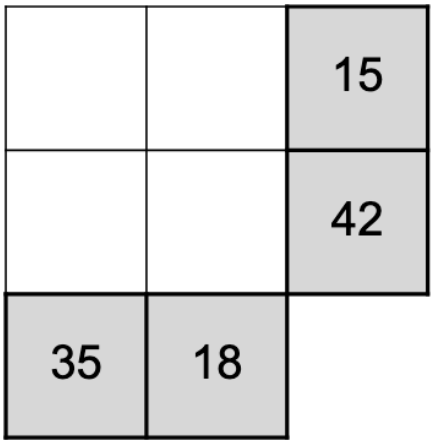
SQUARE

Fill the white squares with numbers from 1-9,
so the gray squares equal the product of each row and column.









Multiplication Facts to 100 (A)

Name: _____ Date: _____ Score: ____ /100

Calculate each product.

4 × 4	8 × 10	5 × 3	8 × 5	7 × 5	6 × 4	2 × 2	8 × 9	6 × 9	8 × 4
9 × 3	4 × 6	4 × 2	4 × 3	9 × 4	8 × 2	9 × 8	3 × 4	3 × 7	2 × 9
7 × 6	2 × 5	6 × 5	5 × 6	2 × 3	8 × 8	10 × 9	3 × 5	4 × 7	3 × 3
4 × 5	3 × 6	3 × 9	9 × 6	2 × 8	9 × 10	2 × 10	6 × 7	10 × 6	4 × 8
3 × 10	3 × 8	9 × 9	10 × 2	2 × 4	10 × 10	5 × 8	6 × 2	9 × 2	8 × 6
10 × 5	5 × 4	6 × 3	8 × 3	7 × 8	4 × 9	5 × 9	6 × 8	5 × 5	5 × 10
2 × 7	5 × 2	8 × 7	10 × 3	9 × 7	4 × 10	6 × 6	3 × 2	6 × 10	10 × 4
7 × 3	7 × 9	5 × 7	2 × 6	10 × 8	7 × 7	7 × 2	7 × 4	7 × 10	9 × 5
10 × 7	4 × 8	4 × 10	4 × 9	9 × 4	10 × 7	8 × 9	7 × 5	3 × 7	6 × 7
2 × 10	7 × 10	7 × 6	10 × 5	3 × 6	9 × 10	2 × 7	8 × 8	6 × 8	8 × 3

Add, Subtract and Multiply (A)

Find each sum, difference or product.

11 × 8	12 + 11	9 × 11	11 - 6	9 + 1	9 × 2	2 × 1	12 × 9	4 + 12	8 + 6
19 - 9	1 + 11	10 + 4	19 - 12	16 - 12	2 + 2	11 + 6	9 - 7	18 - 7	18 - 11
9 - 2	11 + 4	8 × 12	11 × 10	3 - 2	8 - 1	21 - 9	4 × 3	6 + 6	11 × 11
7 - 1	7 + 3	7 + 4	9 × 7	5 - 2	11 × 4	2 × 10	12 + 1	9 + 11	6 + 7
17 - 6	8 + 3	11 - 8	12 × 3	4 + 10	6 - 4	6 + 12	3 + 9	12 + 3	12 × 1
19 - 8	1 × 12	10 - 1	5 × 11	17 - 6	3 + 4	8 × 3	17 - 8	2 × 11	2 × 5
3 + 10	2 + 5	11 + 8	11 + 5	9 + 10	3 + 11	6 - 2	10 - 7	4 - 1	6 + 10
13 - 1	11 × 1	10 + 9	12 - 4	9 + 5	12 × 7	2 × 2	6 - 1	6 + 4	10 + 4
2 + 10	22 - 12	7 - 1	18 - 12	14 - 4	6 × 6	15 - 6	12 + 8	7 + 7	5 + 3
9 + 6	4 + 10	19 - 12	15 - 10	2 × 2	11 - 10	12 + 9	17 - 8	4 + 10	10 - 7

Challenge Pages-Optional but strongly encouraged.

Use two numbers from the box to complete each addition problem below. You will use some numbers more than once.

97	204	297	405	498	607

$$\square + \square = 301 \qquad \square + \square = 394 \qquad \square + \square = 1{,}012 \qquad \square + \square = 1{,}105 \qquad \square + \square = 702$$

Complete these problems. There is more than one correct solution to the first two problems.

a

$$\square\,0\,1 - \square\square = \square\,6\,7$$

b

$$\square\,7\,\square - \square\square\,2 = 3\,\square\square$$

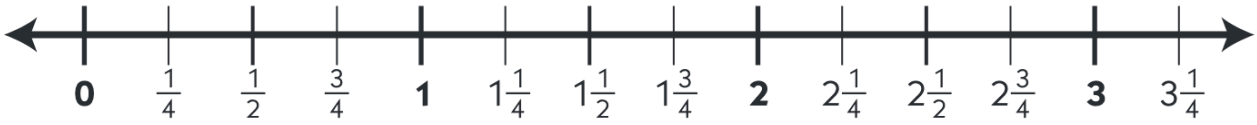
c

$$8\,6\,\square - \square\,4\,1 = 5\,1\,\square$$

Write an even number that has a 7 in the hundreds place, has an odd number in the thousands place, and is a multiple of 10.

The football team went out to eat after the game. The players sat at 4 tables. The coach ordered 9 pizzas. If each table got exactly the same amount of pizza, how many pizzas did each table get? Use labeled sketches, numbers, and/or words to solve this problem. Show all your work.

1 Use the number line to answer the questions below.



example a What improper fraction is equal to $2\frac{1}{4}$? In other words, how many fourths are in two and one-fourth?	$\frac{9}{4}$
example b What number is halfway between 2 and 3?	$2\frac{1}{2}$
a What improper fraction is equal to $1\frac{1}{2}$? In other words, how many halves are in one and one-half?	
b What mixed number is equal to $\frac{6}{4}$?	
c Which is greater, $\frac{5}{4}$ or $1\frac{1}{2}$?	
d What mixed number is equal to $\frac{13}{4}$?	
e What improper fraction is equal to $2\frac{1}{2}$? In other words, how many halves are in two and one-half?	
f Which is greater, $1\frac{3}{4}$ or $\frac{8}{4}$?	

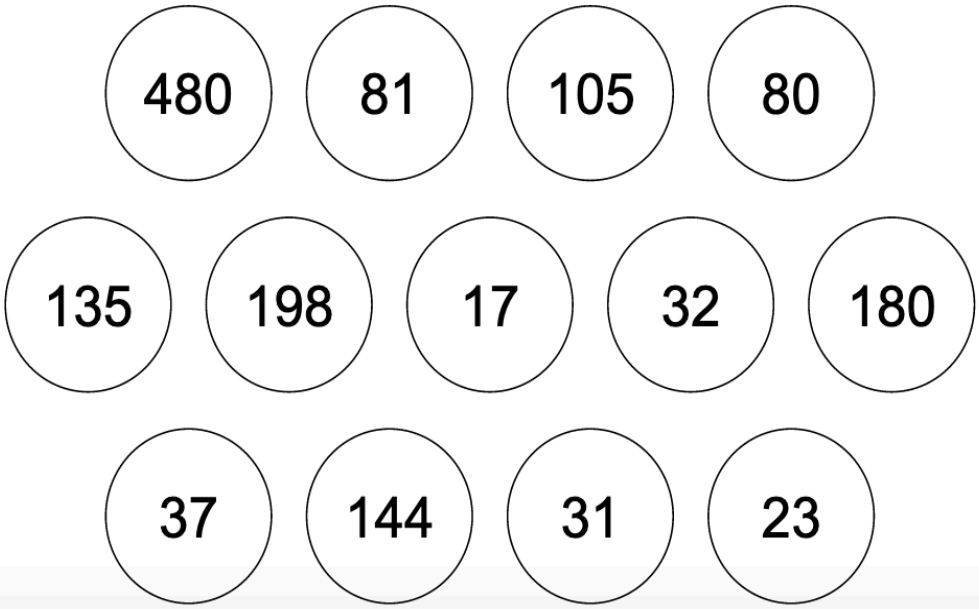
Lisa and her brother Darius were eating small pizzas. Their mom cut each pizza into fourths. Lisa figured out that she ate one and a half little pizzas. Darius counted that he ate seven fourths. Who ate more pizza? How much more? Use a labeled sketch, numbers, and/or words to prove your answer.

DIGIT DETECTIVE

Cross off the numbers that fit each clue. Only one number will be left.

Multiple of 9	Prime number	Days in 15 weeks
4/5 of 100	192 ÷ 6	150 + 10 x 3

What number am I?



SQUARE

In each puzzle, fill the white squares with the numbers 5-10 (with no repeats), so the gray squares equal the product of each row and column.

		48
		35
		90
420	360	

		45
		80
		42
540	280	

		30
		56
		90
378	400	

		45
		70
		48
720	210	