

Name: _____

While people just say "penguins," there are several types of penguins. The emperor penguin is the largest species, averaging 43 inches and 77 pounds. The little blue penguin is smallest, averaging 16 inches and 2.2 pounds. Some prehistoric penguins were thought to grow as tall as 69 inches and weigh as much as 176 pounds.

How many penguins of each type would you have to have to equal approximately the same weight in each group?

Show your work.

Name: _____

$$\begin{array}{r} 856 \\ - 613 \\ \hline \end{array}$$

$$\begin{array}{r} 957 \\ - 393 \\ \hline \end{array}$$

$$\begin{array}{r} 125 \\ - 100 \\ \hline \end{array}$$

$$\begin{array}{r} 479 \\ - 317 \\ \hline \end{array}$$

$$\begin{array}{r} 855 \\ - 419 \\ \hline \end{array}$$

$$\begin{array}{r} 916 \\ - 151 \\ \hline \end{array}$$

$$\begin{array}{r} 588 \\ - 144 \\ \hline \end{array}$$

$$\begin{array}{r} 936 \\ - 537 \\ \hline \end{array}$$

$$\begin{array}{r} 874 \\ - 161 \\ \hline \end{array}$$

$$\begin{array}{r} 520 \\ - 134 \\ \hline \end{array}$$

$$\begin{array}{c} 1699 \\ + \\ 755 \end{array}$$

$$\begin{array}{c} 1245 \\ + \\ 342 \end{array}$$

$$\begin{array}{c} 1699 \\ + \\ 944 \end{array}$$

$$\begin{array}{c} 854 \\ + \\ 441 \end{array}$$

$$\begin{array}{c} 848 \\ + \\ 279 \end{array}$$

$$\begin{array}{c} 848 \\ + \\ 569 \end{array}$$

$$\begin{array}{c} 649 \\ + \\ 258 \end{array}$$

$$\begin{array}{c} 599 \\ + \\ 310 \end{array}$$



$$\underline{\quad} \div 3 = 8$$

$$\underline{\quad} \div 2 = 5$$

$$20 \div \underline{\quad} = 5$$

$$30 \div \underline{\quad} = 10$$

$$\underline{\quad} \div 11 = 9$$

$$48 \div \underline{\quad} = 8$$

$$18 \div \underline{\quad} = 3$$

$$\underline{\quad} \div 3 = 6$$

$$\underline{\quad} \div 11 = 11$$

$$9 \div \underline{\quad} = 3$$

$$\underline{\quad} \div 7 = 4$$

$$16 \div \underline{\quad} = 2$$

Name: _____

$$12 \overline{) 120}$$

$$12 \overline{) 144}$$

$$12 \overline{) 60}$$

$$6 \overline{) 54}$$

$$8 \overline{) 40}$$

$$9 \overline{) 81}$$

$$8 \overline{) 88}$$

$$6 \overline{) 30}$$

Reduce each fraction to its lowest terms.

$$\frac{32}{40} = \frac{8}{40} =$$

$$\frac{12}{15} =$$

$$\frac{3}{9} =$$

$$\frac{72}{162} =$$

Reduce $\frac{17}{34}$ to its lowest terms.

$$\begin{array}{r} 7 \\ - 2\frac{3}{6} \\ \hline \end{array}$$



$$815 - 593 =$$

$$741 - 377 =$$

$$969 - 715 =$$

$$705 - 146 =$$

$$964 - 861 =$$

$$977 - 402 =$$

$$954 - 342 =$$

$$797 - 473 =$$

Name: _____

Wendy is helping her parents plan a trip to Hawaii this summer. Using a map and map scale, she found out that the distance from Washington, D. C., to Honolulu is about 5,100 miles. The distance measured on the map is 20 inches. What is the map scale?

Justin and Anna were working together to make a bulletin board display for National Honesty Day. Justin wanted a blue background, but Anna wanted a yellow background. Anna wanted quotes from famous people, but Justin wanted quotes from other students. It seemed like they couldn't agree on anything. They had started their discussion about the board at 9:34 a.m. Here it was 1:07 p.m. and nothing was done. How long had they been arguing about what to put on the bulletin board?

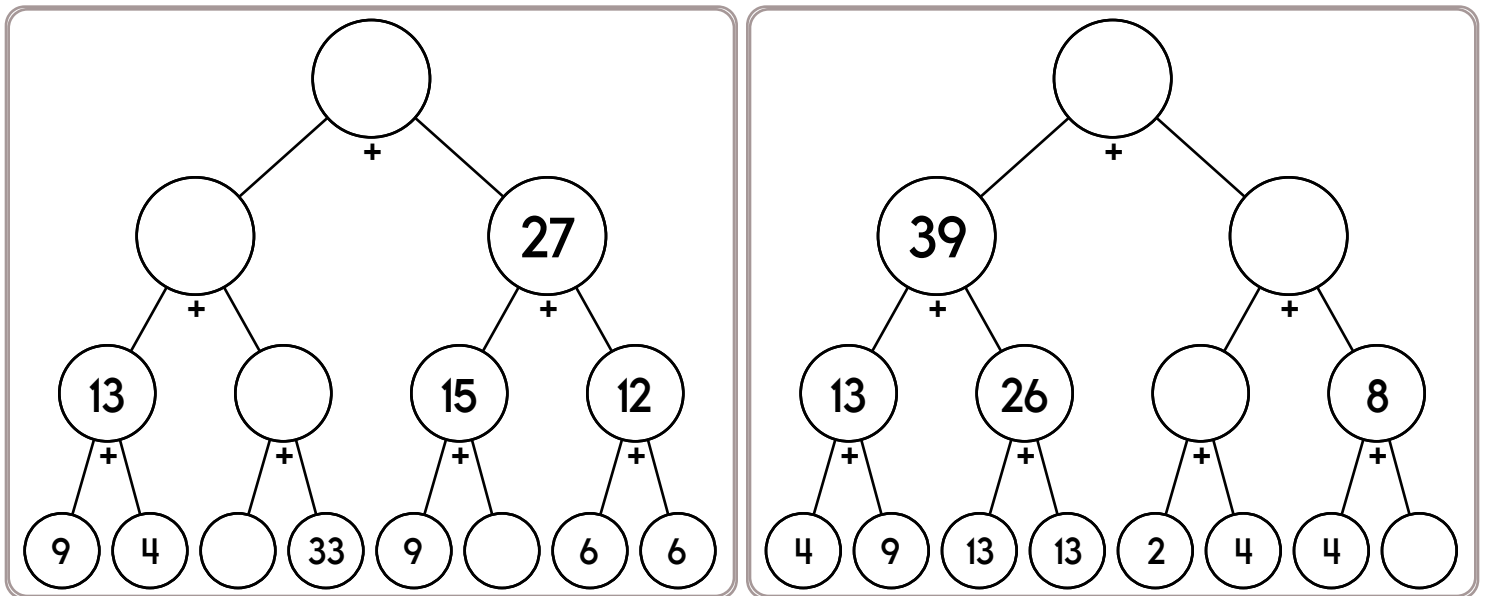
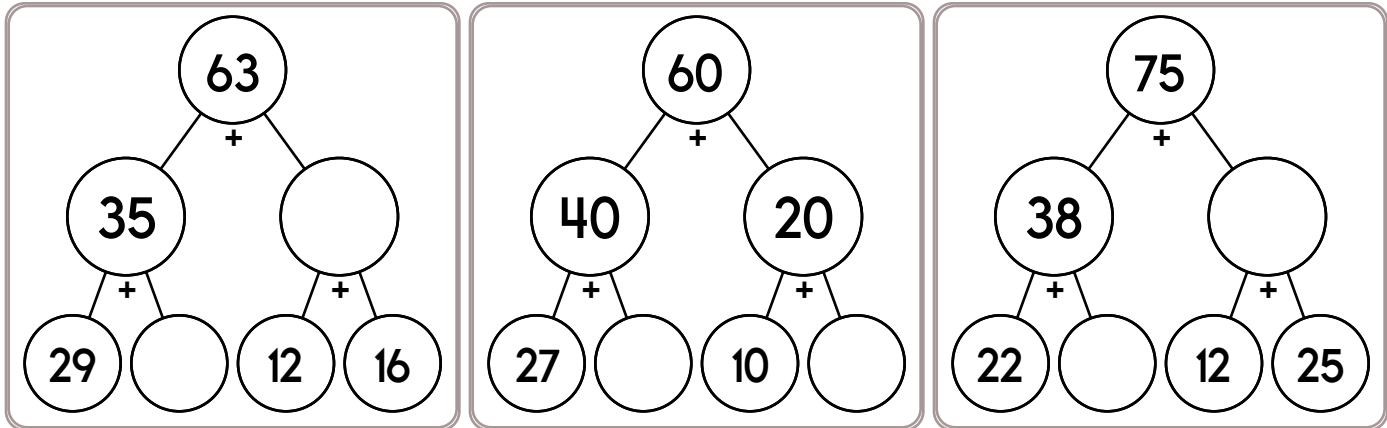
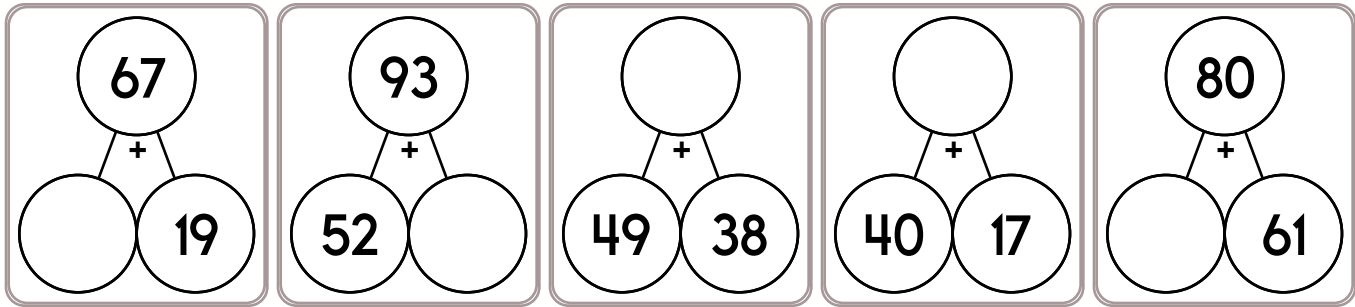
What is 5% of 52?

0.2×0.6

$8 + 36 \div 3 - 56 \div 8 =$

Rewrite $\frac{31}{50}$ as a decimal.

Name: _____



Change to a percent.

$$\frac{29}{10}$$

Change to a percent.

$$\frac{444}{100}$$

Change to a percent.

$$\frac{1}{10}$$

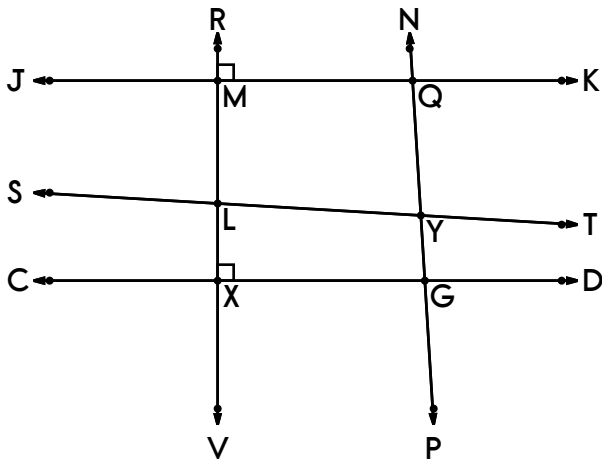
word root **sed** can mean **sit****sedentary, sediment**

Name: _____

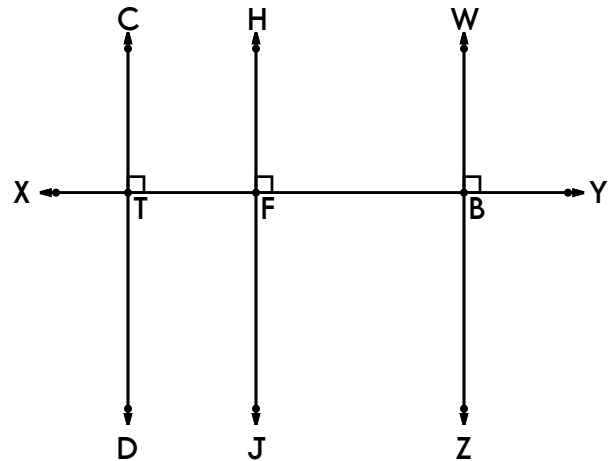
On a number line, what is the number that is 4 to the left of 1?

On a number line, what is the number that is 4 to the left of 3?

$$-1 + 19 = \underline{\hspace{2cm}}$$



How many lines can you name that include point M?



Name 2 parallel lines (or write none).

Name 2 perpendicular lines (or write none).

Give another name for angle $\angle FBZ$.

$$0.4 (0.8 (0.4 \times 9)) =$$

Circle the least amount:

16%

0.34

$$\frac{6}{25}$$

If $w = 5$ and $f = -48$ then what is the value of a ?

$$8w - 11f - 3f = a$$

Name: _____

Pick the family fact that is missing.

$$9 \times 17 = 153$$

$$153 \div 17 = 9$$

$$153 \div 9 = 17$$

It was 9 degrees above zero in the morning. By afternoon the temperature rose 15 degrees. How warm was it?

Estimate quickly the difference.
 $4,270 - 2,710$

$$4\frac{1}{4} \div 2\frac{1}{3} =$$

$$\frac{1}{2} \div 8 =$$

$$\frac{1}{2} \times \frac{5}{6} =$$

What is the greatest common factor of the numbers 72 and 108?

What is the remainder of 80 divided by 17?

$$4 + 6 - 1 + 11 \times 8$$

$$9 \overline{) 2416}$$

Divide and write remainder.

$$34 \overline{) 5474}$$

Divide and write remainder.

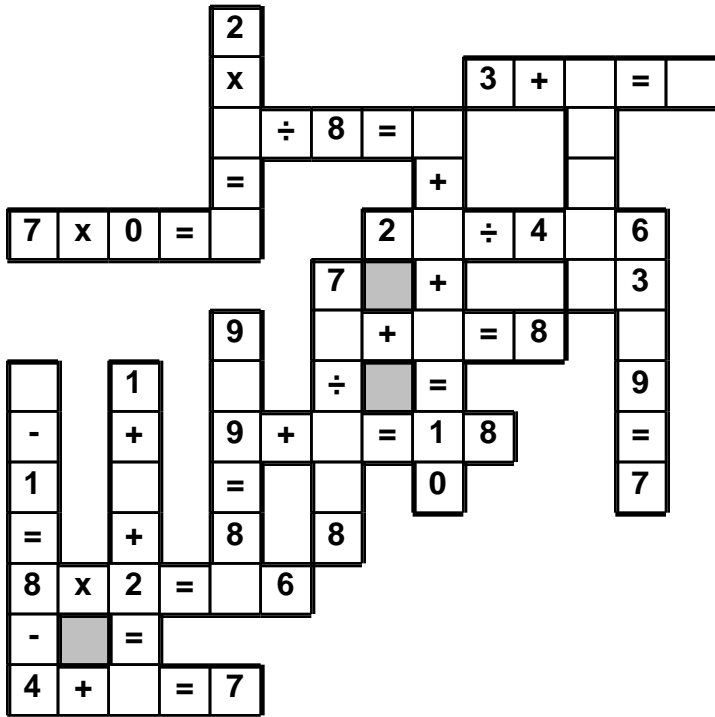
$$\begin{array}{r} 425 \\ \times \quad 9 \\ \hline \end{array}$$

Name: _____

$$5 \cdot 8 \cdot 0 \cdot 0 \cdot + \cdot 0 \cdot 0 \cdot 4 \cdot = \cdot 5 \cdot 2 \cdot 6 \cdot \div \cdot 5 \cdot x \cdot 9 \cdot 0$$

$$= \cdot 1 \cdot 3$$

Use the pieces above to help you fill in the runaway math puzzle.



$$\begin{array}{r} 5 \\ - 2\frac{6}{11} \\ \hline \end{array}$$

$$7,691 - 2,638 =$$

$$\begin{array}{r} 822 \\ + 91 \\ \hline \end{array}$$

Write the decimal number for:

twenty-three
ten-thousandths

Find 36% of 57.












Reduce $\frac{8}{18}$ to its lowest terms.

Name: _____

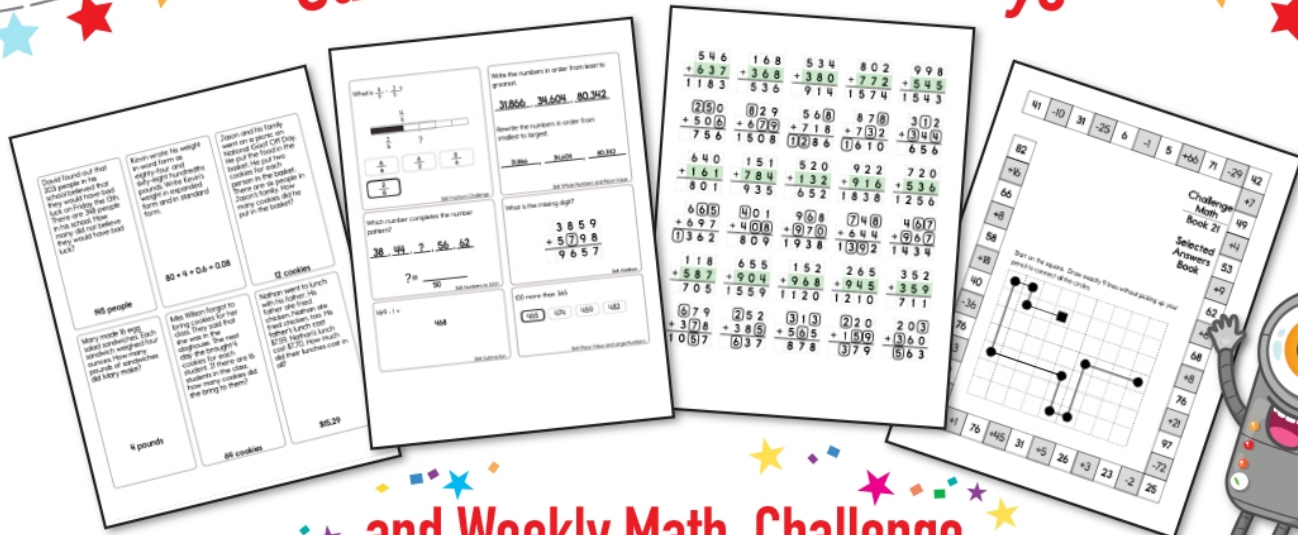
Each row, column, and box must have the numbers 1 through 6. The first box is done.

3	5	6	4		
1	4	2			
5		3			
				2	
2				5	
4	3				

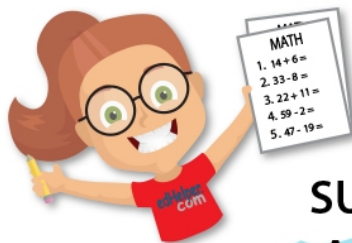
Each row, column, and box must have 6 different pictures.

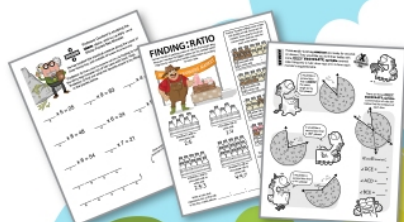
Subscribe to Get Answer Keys

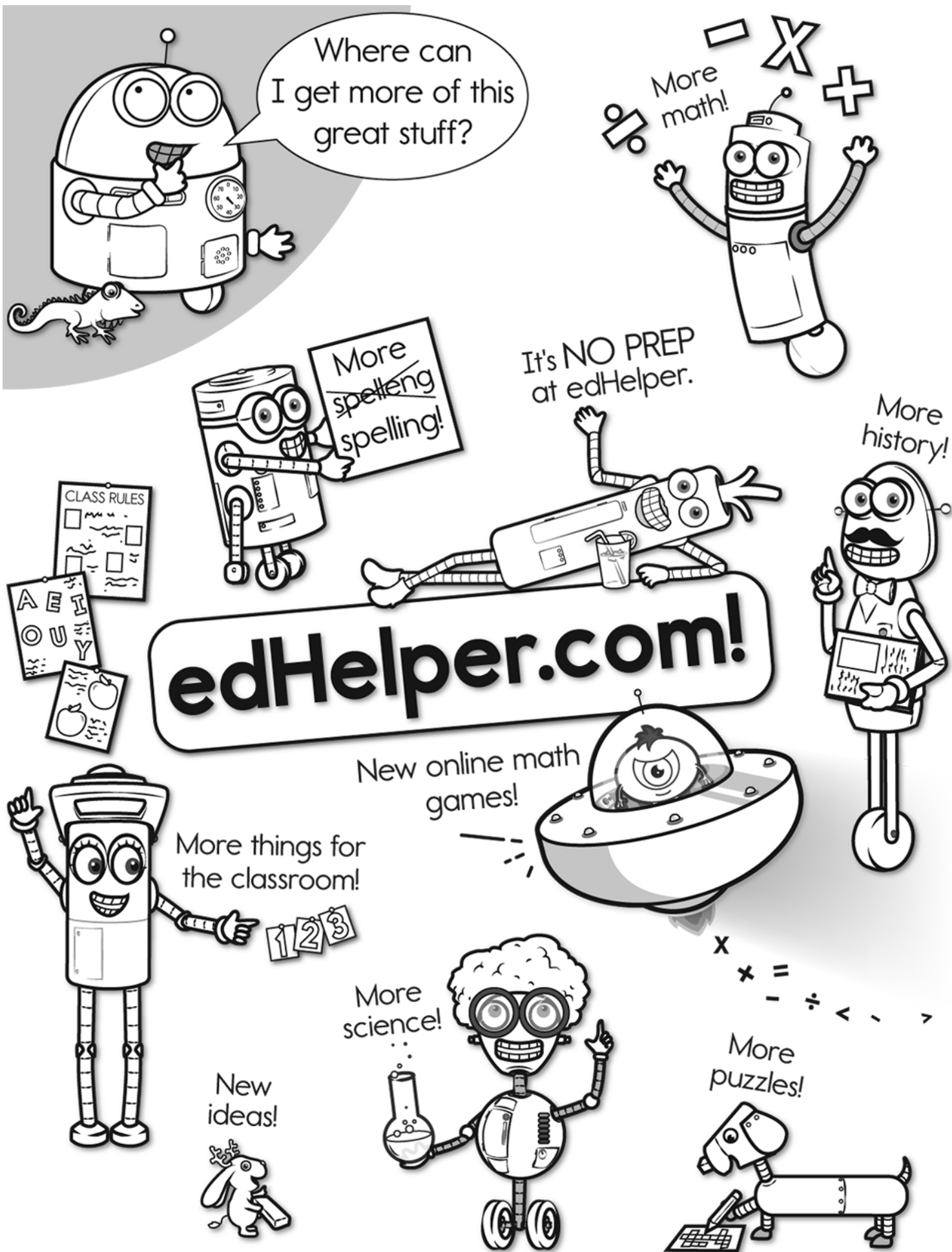


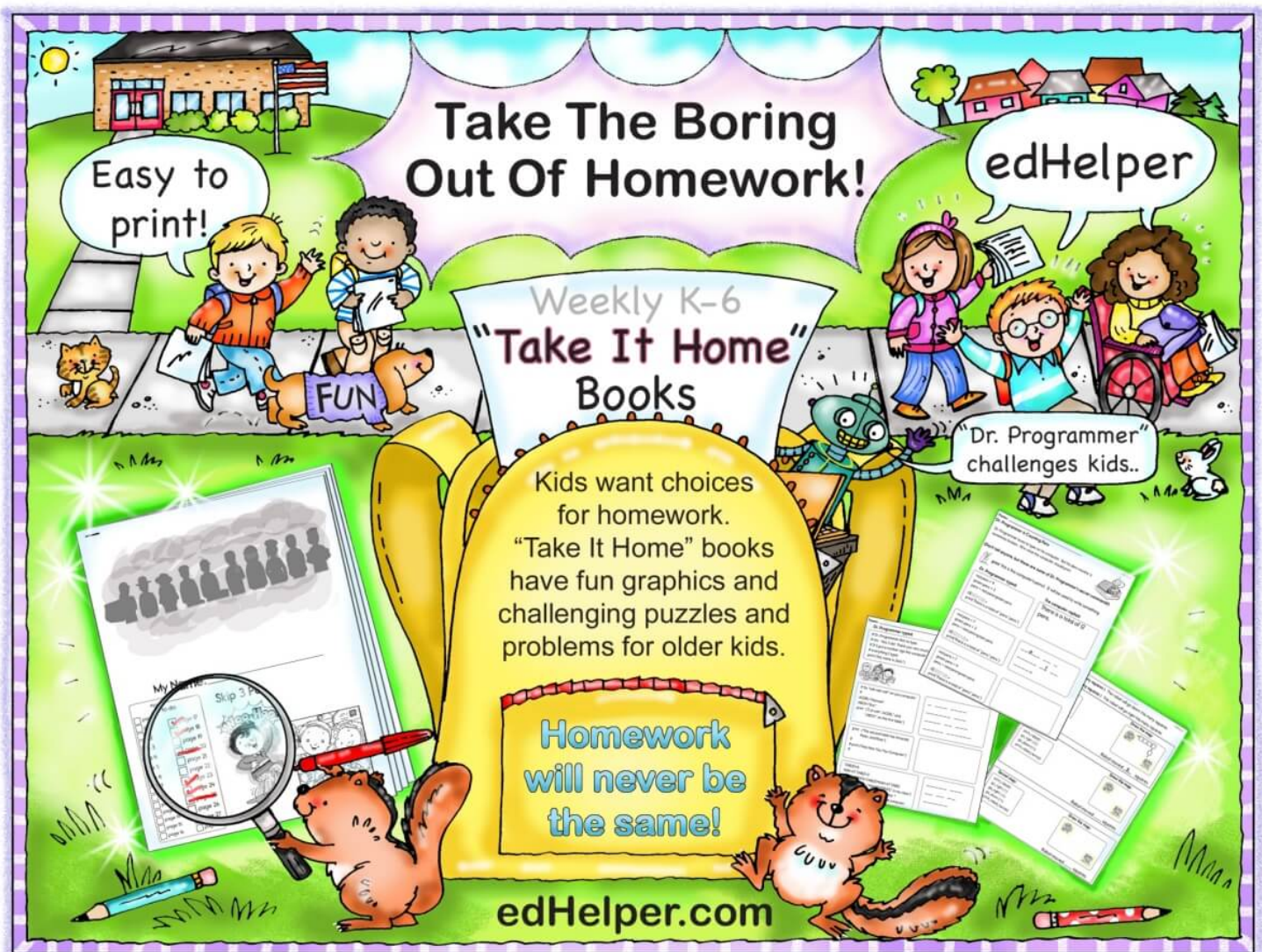
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Name: _____

Write each product in the simplest form.

$$3 \times 2\frac{5}{6}$$

$$5\frac{2}{3} \times 7$$

$$24 \times 46\frac{2}{3}$$

$$3\frac{3}{4} \times 49$$

$$46 \times 1\frac{1}{2}$$

$$28 \times 2\frac{3}{4}$$

$$25\frac{5}{7} \times 25$$

$$1\frac{2}{5} \times 44$$

$$33\frac{1}{2} \times 18$$

$$6\frac{1}{11} \times 16$$

$$43 \times 2\frac{1}{3}$$

$$17 \times 1\frac{5}{6}$$

Name: _____

Words can be to the RIGHT, DOWN, LEFT, or UP. Every letter is used ONCE.
Hint: When to the LEFT or UP the word is backwards.

E	S	U	P	E	R	L	A	T	I	V	E	M
X	S	O	R	M	A	X	I	M	A	P	S	A
T	E	C	A	B	R	E	A	S	T	R	R	N
I	N	A		S	O	W	C	U	P	E	O	U
N	S	P	R	F	A	T	H	O	M	V	T	S
C	I	T	A	M		C	A	L	L	I	O	C
T	T	A	N	E	T	N	A	I	G	O	M	R
I	I	I	B	R	E	A	T	H	E	U	N	I
O	V	N	M	E	G	R	I	N	D	S	E	P
N	E	S	L	A	M	P	E	R	I	H	M	T

Write the words found.

MANUSCRIPT	MEN	MOTORS
SUPERLATIVE		

Draw one line to find two words in each puzzle. The bold letters start each word.
You can move in any direction, including diagonal. Write the two words that you find.

S K I W M C K U	O S M A I K U O	P K T I M J R E
U A D U A E J S	I N I G E S H I	A T E L C N L O
I J D D W R A O	H H F K Q A U O	U T I P I O U E
O U T K E A N A	S A C O X I R N	I R D O S I X I
I N L Z I G E E	X P E A O I F E	F N U G U U C V
A M P A Y Y R T	Q G L M Z J O C	W V U G L Y I E
O X U D B S P O	A N I E O P I I	I Y O X I U E D
C T I E U A T Z	G G L E B H U I	F V L G M M O U
_____	_____	_____
_____	_____	_____

Name: _____

Put these numbers in order from smallest to largest.

4.061

4.11

4.05

4.12

Emily is binge watching Season 4 of her favorite series. Each episode is 1 hour and 24 minutes long. She just started watching and hopes to watch for 5 hours today. How many complete episodes will she be able to watch?

What is $\frac{3}{7}$ of 168? Show your work.

Name: _____

Fill in each box of the edHelperKu puzzle, using the numbers from 1 to 6.

Every row must contain the numbers 1, 2, 3, 4, 5, and 6.

Every column must contain the numbers 1, 2, 3, 4, 5, and 6.

In a cage with a plus sign, the given number will be the sum of all the digits in the cage.

8+	4	7+	3	16+	
	4+		9+	3	
14+				6	6+
		9+		4+	
10+		9+	15+	2	
	2			4	3

Fill in the blanks. These equations are from the puzzle above.

$$\underline{\quad} + 2 = 6$$

$$4 + \underline{\quad} + \underline{\quad} = 10$$

$$\underline{\quad} + \underline{\quad} + 4 = 15$$

$$\underline{\quad} + \underline{\quad} + 6 = 9$$

$$\underline{\quad} + 6 = 8$$

$$5 + \underline{\quad} = 9$$

$$\underline{\quad} + 2 + \underline{\quad} = 4$$

$$\underline{\quad} + 3 = 4$$

$$\underline{\quad} + 6 = 9$$

$$5 + \underline{\quad} + \underline{\quad} = 16$$

Name: _____

Ready to make equations? There is a missing equation in each box.
Circle the numbers once you find it!

A

84	78	99
23	40	41
97	79	12
10	42	76

Find an
addition fact.

B

50	22	86
76	44	41
46	84	81
7	61	4

Find an
addition fact.

C

74	67	88
53	99	51
90	89	27
20	69	95

Find an
addition fact.

Equations:

Write the equation facts you found.

A	23	+	76	=	99
B		+		=	50
C		+		=	89

$$\begin{array}{r} 592 \\ 626 \\ 472 \\ + \quad 5 \\ \hline \end{array}$$

Convert to a fraction or
mixed number and simplify.

$$5.83 =$$

$$0.00036 =$$

$$0.01 =$$

$$3.00411 =$$

$$3.00024 =$$

$$0.00983 =$$

Change to percents.

$$\frac{19}{100} =$$

$$\frac{50}{100} =$$

$$\frac{7}{10} =$$

$$\frac{3}{10} =$$

$$\frac{92}{100} =$$

$$\frac{63}{100} =$$

Name: _____

"I can quickly divide a three-digit number by a two-digit number," Sarah tells Max.

"Yeah, sure," replies Max. "Then what is 846 divided by 47?"

Sarah has a trick. She will distract Max while you figure it out. Show your work!

Which two of the fractions have a difference of $\frac{1}{6}$?

$$\frac{4}{7}$$

$$\frac{2}{5}$$

$$\frac{1}{3}$$

$$\frac{4}{6}$$

$$\frac{1}{2}$$

For field day, Mrs. Martinez is preparing punch. She wants to make 7 gallons of punch. The recipe she found is only for 3 quarts. The recipe calls for $2\frac{2}{5}$ cups of pineapple juice, $\frac{1}{4}$ cup of orange juice, and the rest lemon-lime soda. In order to make 7 gallons of punch, how much of orange juice will Mrs. Martinez need? Hint: She will need $22\frac{2}{5}$ cups of pineapple juice.

Name: _____

Complete each pattern. Write what the rule is.

41.6	47.2	52.8
58.4		69.6
75.2	80.8	
92		103.2

Complete each pattern. Write what the rule is. Hint: Look for alternating sequences.

Every third number is the greatest common factor.

15, 18, 3, 20, 22, 2, 25, 26, 1, 30,

30, 30, 35, 34, 1, 40, 38, _____, _____, _____

10, 13, 1, 15, 17, 1, 20, 21, 1, 25,

25, 25, 30, 29, 1, 35, 33, _____, _____, _____

Name: _____

Can you draw lines to cover every number or shape in the picture?

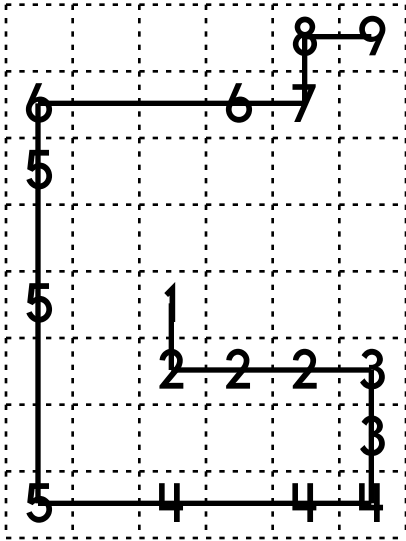
You can only move left, right, up, or down. And definitely no starting or stopping in a blank spot!

The first one is already done for you. Good luck.

Draw exactly 8 lines.

Start on 1.

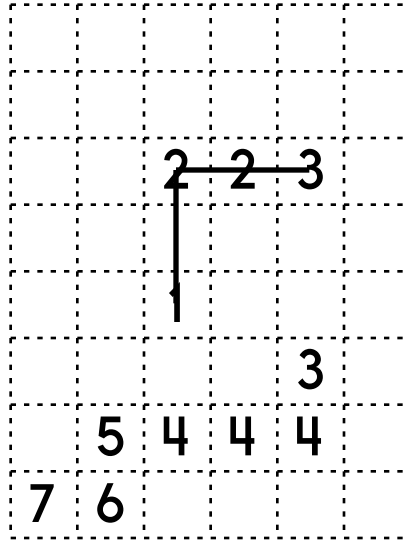
Do not pick up your pencil.



Draw exactly 6 lines.

Start on 1.

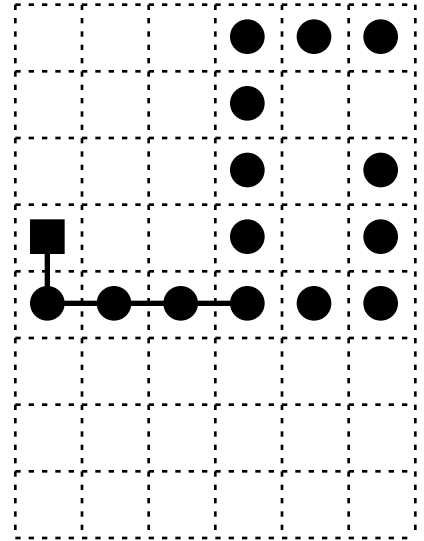
Do not pick up your pencil.



Draw exactly 6 lines.

Start on the square.

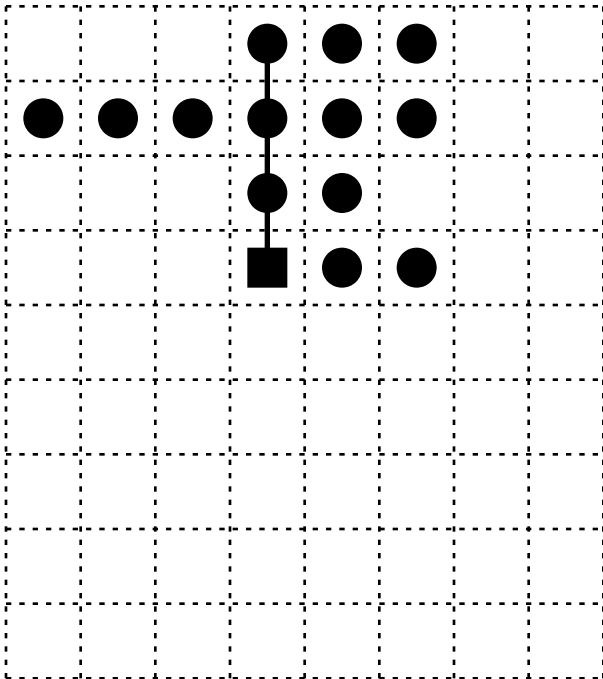
Do not pick up your pencil.



Draw exactly 6 lines.

Start on the square.

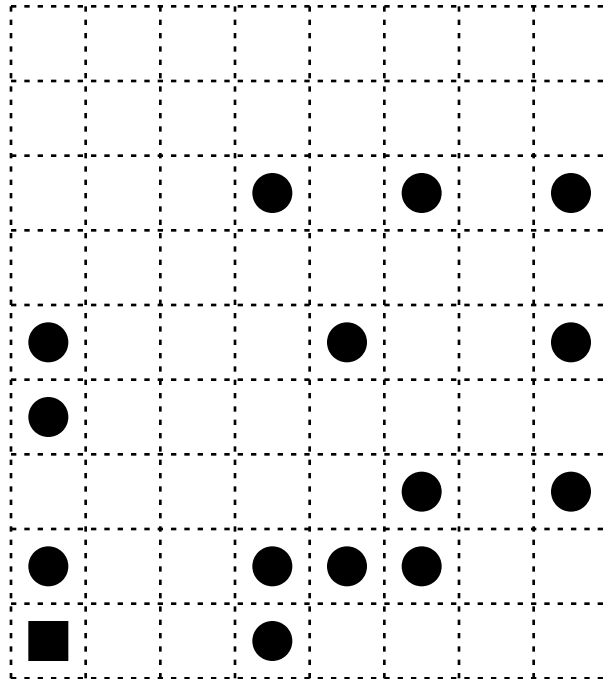
Do not pick up your pencil.



Draw exactly 9 lines.

Start on the square.

Do not pick up your pencil.



Name: _____

	+	+	=	
+	C	C	B	20
-	C	A	C	21
=	C	?	C	18
	6	9	8	

Equations and Hints:

Each letter is a whole number.

Fill in the equations using the chart:

$$C + C + B = 20 \quad B + \underline{\quad} - C = 8 \quad \underline{\quad} + \underline{\quad} - \underline{\quad} = 6$$

$$\underline{\quad} + \underline{\quad} + \underline{\quad} = 21$$

Additional hints:

$$B < 14 \quad A = B + 1$$

Show Work:**Solve:**

$$? = \underline{\quad}$$

Name: _____

Draw a line from START to END.

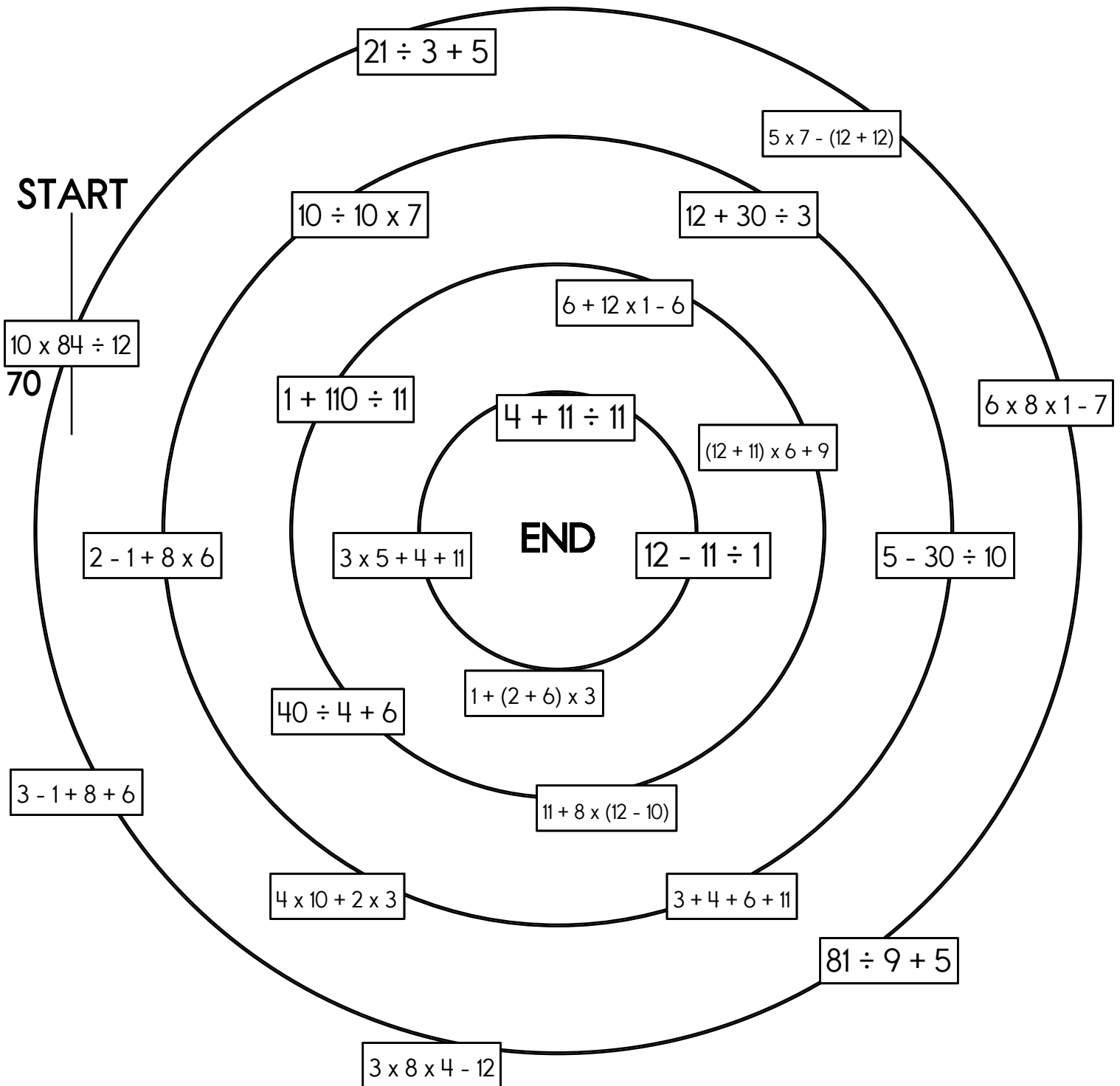
49

1

~~70~~

27

Cross out the number you use above and then write it below.



Name: _____

6	3	0	0
-	0		
	3	0	
-	3	0	
		0	0
		-	0
			0

9	9	0	0
-			
	-		
		-	

3	7	4	1

7	4	0	0	4

2	5	7	4	6

8	6	9	2	8

Name: _____

a. Which equation has the largest quotient?

$18 \div 2$ or $22 \div 2$?

b. Which equation has the largest quotient?

$336 \div 14$ or $462 \div 14$?

c. Which equation has the smallest quotient?

$384 \div 16$ or $272 \div 16$?

d. Which equation has the smallest quotient?

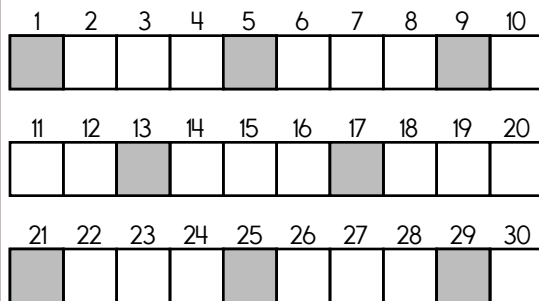
$420 \div 15$ or $315 \div 15$?

How could the number \$58.71 appear in a real-life situation?

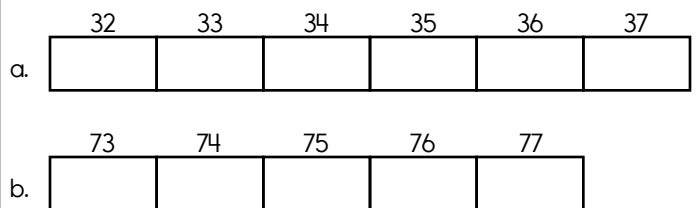
Gavin wrote all of the multiples of 3 up to 29.

Max wrote all of the multiples of 4 up to 29.

Can you write all of the numbers from 1 to 29 that they did not write?



If this pattern continues, color how these squares would look:



Name: _____

$$\frac{1}{5}$$

$$\frac{1}{3}$$

$$\frac{7}{8}$$

$$\frac{1}{2}$$

$$\frac{2}{3}$$

$$\frac{5}{7}$$

Name two of the above numbers that have a sum of $\frac{13}{15}$.

I am a whole number. One of my factors is 17. One of my digits is 7. I am less than 400. I am greater than 300. What number am I?

I am a 5-digit number less than 20,000. I am divisible by 8. Write any number that fits this.

Name: _____

Each box needs a number from 1 to 9. You may re-use numbers.

sum of 8 ↓		sum of 8 ↓	sum of 5 ↓	sum of 8 →			
	sum of 10 →		4		sum of 4 →		
	sum of 8 ↓		1	sum of 4 →		1	
			sum of 4 →				
			sum of 6 ↓	sum of 6 →			sum of 3 ↓
sum of 5 ↓		sum of 4 →			1		
				sum of 6 →		3	
		sum of 10 →					

sum of 3 →	1		sum of 8 ↓	sum of 9 →			
	sum of 10 ↓		2		sum of 6 →		
		sum of 9 →	2	4			sum of 8 ↓
sum of 10 →			4	sum of 7 →			
	3	sum of 4 ↓		sum of 6 →			
sum of 5 ↓			sum of 6 →				
	sum of 6 →						
	sum of 5 →	1		1			

What Words? Your Words!

Fill in the boxes with letters to make words. Each box is worth points. Earn points by filling in as many boxes as you can. Sum up the points you earn for each word.

Make a Word								Sum
1	2	4	6	12	18			13
S	Y	S	T	E	M			
1	2	4	8					
C	R							
1	2	6	12	18				
T	R	A						

Make a Word							Sum
1	2	4	6	10			
		E					
1	2	4	8	14	20		
L	E						
1	2	4	6				
P	H						

Write an equation to represent this:

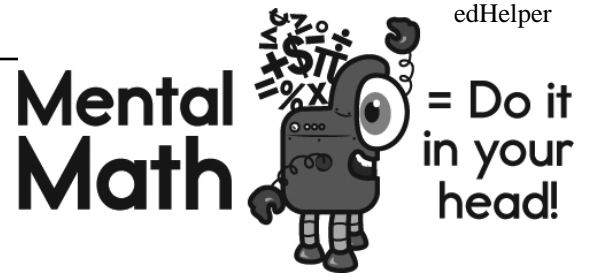
The product of five and eight is forty.

Rewrite these in increasing order of length:

839 km, 936 dm, 346 m

Name: _____

Only use a pencil to write the numbers on the blank lines. You do not need any scrap paper! Solve it in your head. If you forget a number, then start over. Cool, huh?



imagine 5 in your head

multiply 12

add 2

Write the tens digit.

 A

imagine 7 in your head

multiply 7

double it

subtract 7

subtract 9

subtract 6

Write the tens digit.

 B

imagine 2 in your head

add 2

multiply 11

double it

subtract 7

add 5

Add the tens digit to the ones digit.

Write the sum.

 C D

imagine 2 in your head

add 6

double it

add 3

subtract 6

add 1

Add the tens digit to the ones digit.

Write the sum.

 E

What is the sum?

A + B + C + D + E

Wow! Great job! That's the answer, but do you know how to SPELL the number?

_____ - t _____ e e

7 after 11 _____

6 before 18 _____

9 before 13 _____

6 after 12 _____

8 before 17 _____

1 before 14 _____

8 after 17 _____

7 before 11 _____

3 before 16 _____



Name: _____

Ready for a challenge? See how long this takes.

My starting time: _____ : _____ and _____ seconds.

My ending time: _____ : _____ and _____ seconds.

104, 117, 130, 143, 156,
_____, 182

$$9\frac{2}{3} + 3\frac{2}{3}$$

The radius of a circle is 513 cm. What is the diameter of this circle?

What is 50% of 1,776?

It was 2 degrees below zero in the morning. By afternoon the temperature rose 27 degrees. How warm was it?

It was 7 degrees above zero in the morning. By afternoon the temperature rose 18 degrees. How warm was it?

What 4 coins add up to 8 cents?

How many centimeters in 1.4 meters?

Round the decimal 0.455 to the nearest hundredth.

$$11 \times 6 - 9 + 11$$

Round 15,305 to the nearest thousand.

Round 98,727 to the nearest hundred.

The perimeter of a rectangle is 20 cm. The longer side is 7 cm. How long is the shorter side?

8, 10, 12, 14, 16, 18, 20,
_____, 24, 26

$$10 + (6 + 6)$$

Name: _____

Jenna cannot open her locker. She knows that the three numbers are: 1, 21, and 34, but she cannot remember the order of the numbers. How many different combinations are there? List ten of them.

How many dimes make \$2.10?

A jar has pennies, nickels, dimes, and quarters. Adam took eleven coins from the jar. He didn't take any pennies or quarters. He has 75 cents. What coins did he take?

A bike originally priced at \$90 is marked down by 30%. What is the sale price?

The letters A and E each have a line of symmetry. Name another letter between A and E that has a line of symmetry.

Megan likes to change numbers into a secret letter form. Megan changed the number 389 to GGG. Megan changed the number 946,286 to GGGGGG. Megan changed the number 1,166 to GGGG. Megan changed the number 54,341 to GGGGG. How do you think she would change the number 83?

Name: _____

Dr. Programmer knows how to program with his computer. He uses the STAR key, which is *. On a computer you have to press Shift and 8 at the same time to type that. How confusing!

5 times 2 is written $5 * 2$ on his computer.



Dr. Programmer typed:

The computer replied:

print (3 * 9)

27

print (11 * 8)

__

print (3 + 12)

__

print (21 + 29)

A = 8

B = 7

print (A * B)

A = 3

print (A * 10)

Circle the answer that best completes the sentence.

(May/Can) you help me with my homework tonight?

How many inches are in 7 feet?

_____ inches

Name: _____

A = 644
 B = 8
 C = A - B
 print (C)

A = 393
 B = 8
 C = A - B
 print (C)

Girls = 20
 Boys = 17
 Diff = Girls - Boys
 print ("Our class has ",Diff," more girls than boys.")

 _____ g _____ s
 _____ n _____

N1 = 6
 N2 = 8
 N3 = N1 * N2
 N4 = N3 + 2
 print ("N4 = ",N4)

N1 = 3
 N2 = 7
 N3 = N1 * N2
 N4 = N3 + 2
 print ("N4 = ",N4)

Name: _____

There is only 0.24 of the lemon cream pie left in the pan. Write as a fraction the amount of pie left in the pan.

Wendy wanted to give her server a tip of 18%. She knew she could figure the tip by multiplying 0.18 times the cost of the meal. Her meal cost \$18.45. How much tip should she leave? (Round off your answer to the nearest cent.)

Wendy spent \$25.63 on a shirt and \$63.35 on a pair of shoes. She had \$13.21 left after her purchases. How many did she have before she bought the shirt and shoes?

Peter spends $2\frac{1}{4}$ hours each night working on his homework. His best friend only works on homework for $\frac{7}{8}$ of an hour. How much longer does Peter work than his friend?

Mr. Miller bought 5 cases of sour licorice for his candy shop. The cost was \$112.95 per case. There are 12 boxes in a case and 6 bags in a box. What was Mr. Miller's cost per bag?

April bought $4\frac{1}{2}$ pounds of candy to decorate the gingerbread houses. If $\frac{1}{5}$ of a pound of the candy was peppermint, how many pounds were not peppermint?

Name: _____

In the fourth grade, each student read one poem.

Of the students, $\frac{1}{3}$ read "The River," $\frac{1}{5}$ read "Storm Clouds," and $\frac{7}{15}$ read "First Spring." Which poem was read by the most students?

Robert built some birdhouses to welcome the birds that always arrived in early spring. He had a piece of wood 8' x 8.5'. He used 51.3 square feet of it. How many square feet did he have left?

The weatherperson said that there is a 75% chance of snow. The odds are _____ to _____ that there will be snow.

Rose decided to make 6 dozen cookies for the Just Because Festival at her school. The recipe called for $\frac{1}{2}$ of a cup of chips for each cup of flour used. If Rose uses $6\frac{1}{2}$ cups of flour, how many cups of chips will she need?

Mr. Hernandez, the director of the Marin Shelter, said that 21% of the animals brought to the shelter have been neutered or spayed. Last year 309 animals were brought to the shelter. How many had NOT been neutered or spayed?

Mrs. Martinez made $\frac{1}{2}$ of a gallon of mudbug stew for her dinner guests. Each serving of the stew is $\frac{4}{5}$ cup. How many guests can she serve with that amount of stew?

Name: _____

Mr. King is getting married soon. He is buying ties and tie tacks for his groomsmen. The ties cost \$41.56 each, and a tie tack costs \$75. The store will wrap the packages for \$3.75 each. He will have 6 groomsmen. How much will he spend on the gifts?

According to a recent survey, 43 out of 125 people say they have donated time or money to a humanitarian group this year. What percent of people do not say that have donated time or money in this way? Round your answer to the nearest tenth of a percent.

Show the steps to solve $3(38 - 8 - 14) \times 13 \times 13 \div 3 + 626$.

Step 1. Parentheses

Step 2. Exponents

Step 3. Multiplication & Division (or Division & Multiplication!)

Step 4. Addition & Subtraction (or Subtraction & Division!)

Put one line under the smallest number. Put two lines under the next smallest, and so on. The largest number should have 4 lines under it.

-6.4

4.7

4.3

-6.6

Name: _____

Sudoku Sums of 6

Each row, column, and box must have the numbers 1 through 6.
Hint: Look for sudoku sums. The sum of the two boxes inside of the dashed lines is 6.

Here is an example of a sudoku sum of 6:

1	5
---	---

2					4
	4		6	1	
				2	
		2	5	6	
	3	6		4	

Fill in the boxes so each line equals 10.

10		
90	÷	
10	x	
	-	9
(+) - 14

Nathan's birthday is in September. Amy's birthday is four months after Nathan's birthday. What month is Amy's birthday?

What are 34 tens equal to?

word root **ver** can mean **true****verdict, verbatim**

Name: _____

Write the reciprocal.

$$\frac{5}{17}$$

Write the reciprocal.

$$\frac{13}{4}$$

$$\frac{4}{11} \times \frac{1}{2} =$$

$$1\frac{1}{4} \times 4\frac{1}{3} =$$

$$12 - \frac{3}{5} - \frac{1}{3} =$$

$$9 \times \frac{4}{5} =$$

$$\begin{array}{r} 6 \\ - 2\frac{5}{12} \\ \hline \end{array}$$

$$\begin{array}{r} 7\frac{5}{10} \\ \frac{3}{10} \\ + 2\frac{5}{10} \\ \hline \end{array}$$

$$4\frac{1}{12} \times \frac{1}{8} =$$

Write the reciprocal.

$$\frac{5}{2}$$

Reduce $\frac{15}{35}$ to its lowest terms.

Write the reciprocal.

$$\frac{1}{6}$$

Name: _____

$$\begin{array}{c} \bigcirc \\ \swarrow \quad \searrow \\ 3\frac{1}{2} \quad + \quad 2\frac{1}{2} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \swarrow \quad \searrow \\ \frac{1}{5} \quad + \quad \frac{3}{10} \end{array}$$

$$\begin{array}{c} 1\frac{1}{12} \\ \swarrow \quad \searrow \\ \bigcirc \quad + \quad \frac{1}{3} \end{array}$$

$$\begin{array}{c} \frac{2}{3} \\ \swarrow \quad \searrow \\ \frac{1}{6} \quad + \quad \bigcirc \end{array}$$

$$\begin{array}{c} 1\frac{3}{8} \\ \swarrow \quad \searrow \\ \frac{5}{8} \quad + \quad \bigcirc \end{array}$$

$$\begin{array}{c} \bigcirc \\ \swarrow \quad \searrow \\ \frac{1}{6} \quad + \quad \frac{1}{2} \end{array}$$

$$\begin{array}{c} 1\frac{1}{8} \\ \swarrow \quad \searrow \\ \bigcirc \quad + \quad \frac{5}{8} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \swarrow \quad \searrow \\ \frac{11}{12} \quad + \quad \frac{2}{3} \end{array}$$

Name: _____

Gavin received a gift certificate at the Book Barn, so he decided to give away the books he had read. He divided the books evenly among 4 friends. Each friend got 8 books. Write and solve an equation to find how many books Gavin gave away.

Rosa was bored. She found her little sister and offered to read a book to her. She read to her sister for an hour and 42 minutes. If Rosa started reading at 3:29 p.m., what time did she stop reading?

Consistent Claire loves practicing her free throws. She is so consistent. Every game she gets the same percentage of free throws in the hoop. In the last game she played, Claire made 20 of 24 attempted free throws. In today's game, she attempted 18 free throws. If her percentage for this game is the same as her last game, how many of them went in?

The (make-believe) country of Slowmonia, after 17 years of research, launched a rocket into space to land on Pluto. It is slow! It travels 2.249 kilometers in a month. How far will it travel in 79 years?

Name: _____

$$\begin{array}{r} 884 \\ + 66 \\ \hline \end{array}$$

$$20 \overline{) 2096}$$

$$8 \overline{) 82}$$

Divide and write remainder.

Divide and write remainder.

$$3 \overline{) 7525}$$

$$6 + 5 + 4 + 2 =$$

$$\begin{array}{r} 5 \\ 27 \\ 526 \\ + 728 \\ \hline \end{array}$$

Divide and write remainder.

Find the sum of 71, 57, and 64.

Divide and write remainder.

$$\frac{59}{5} =$$

$$\begin{array}{r} 35 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 48,257 \\ - 23 \\ \hline \end{array}$$

$$\begin{array}{r} 1,396,725 \\ - 5,059 \\ \hline \end{array}$$

$$\begin{array}{r} 999 \\ - 700 \\ \hline \end{array}$$

Name: _____

Use >, <, or = to complete.

$$24.49 \underline{\hspace{1cm}} 24.4900$$

$$445.26 \underline{\hspace{1cm}} 449$$

$$6.7 \underline{\hspace{1cm}} 6.23$$

$$426.4 \underline{\hspace{1cm}} 422$$

$$365 \underline{\hspace{1cm}} 361.41$$

$$1.42 \underline{\hspace{1cm}} 1.5$$

$$440.73 \underline{\hspace{1cm}} 442$$

Change $\frac{3}{5}$ to a decimal.

Write the decimal number for:

five hundred eighty-three and ninety-two hundredths

$$1.2 \overline{) 0.0636}$$

Write the decimal number for:

one hundred seventy-nine and seventy-six thousandths

Change $\frac{3}{20}$ to a decimal.


$$\begin{array}{r} 8.6 \\ - 7.332 \\ \hline \end{array}$$

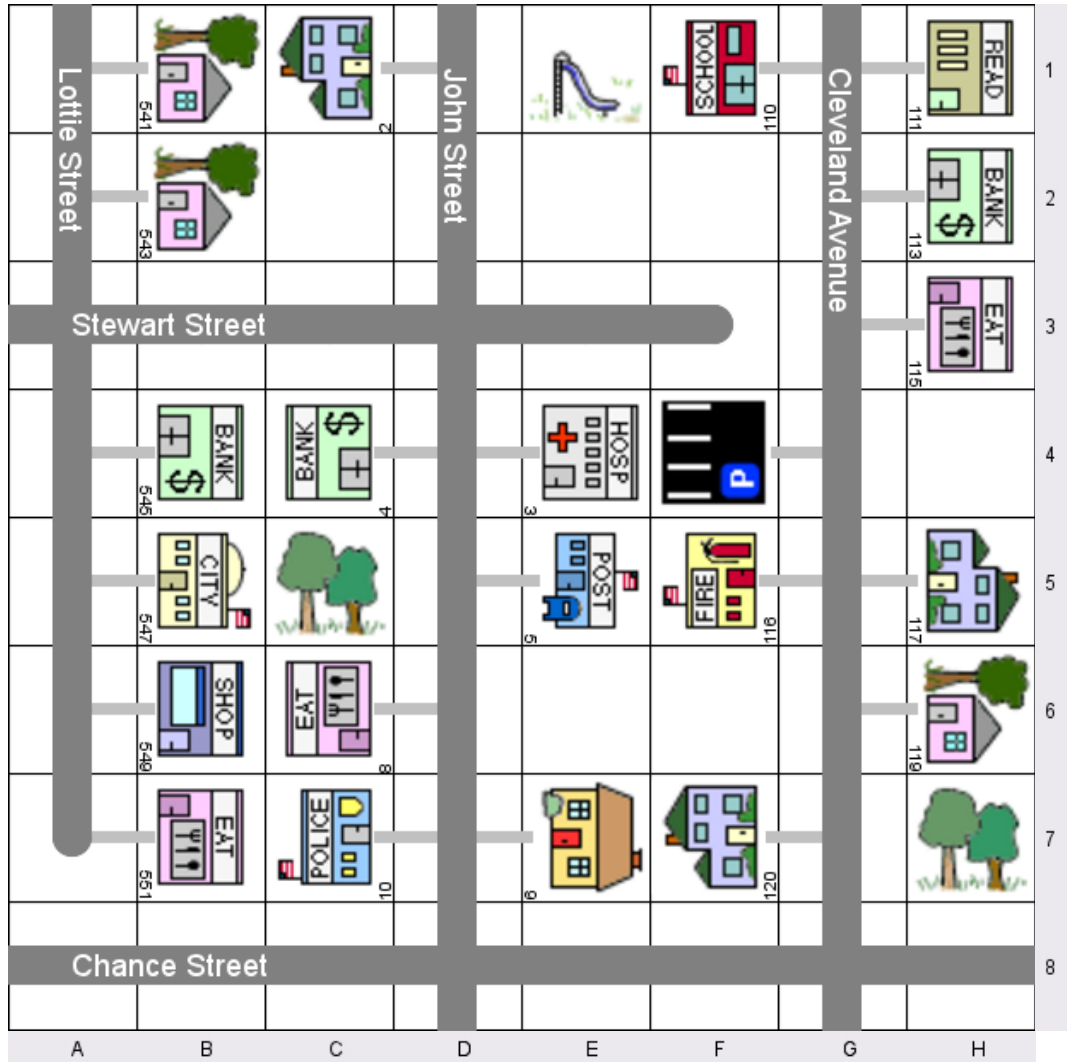
$$\begin{array}{r} 9,666.7 \\ 3,744 \\ + 6,615 \\ \hline \end{array}$$

$$\begin{array}{r} 97,130.8 \\ 10,907.58 \\ + 21,100.6 \\ \hline \end{array}$$

Name: _____




= 176 meters



Circle the one at H,1.



PICNIC



Circle the one at H,2.



9 John Street



is at _____.

547 Lottie Street



is at _____.

111 Cleveland Avenue



is at _____.

5 John Street



is at _____.

3 John Street



is at _____.

4 John Street





is at _____.

Name: _____

Lottie Street is _____
of John Street.

Stewart Street is _____
of Chance Street.

Go _____ to drive from the
police station at 10 John Street  to the
house at 2 John Street .

[Hint: Use north, south, west, or east.]

The library at 111 Cleveland Avenue is across
from

Which street has a post office?

Which street has a fire station?

Begin at the house at 543 Lottie Street. Walk the path to the road. The distance from your starting point to the road (the little path) is 50 meters. Go north on Lottie Street. Your final destination is on the east side of Lottie Street. You will have walked a total of 100 meters from your starting point (including the 50 meters path at the end of your walk). What is your final destination?

Circle the building that is located on John Street.



The hospital at 3 John Street is across from

Begin at the house at 120 Cleveland Avenue. Walk the path to the road. The distance from your starting point to the road (the little path) is 50 meters. Go north on Cleveland Avenue. Your final destination is on the west side of Cleveland Avenue. You will have walked a total of 118 meters from your starting point (including the 50 meters path at the end of your walk). What is your final destination?

Name: _____

$$7 \overline{) 173586}$$

$$4 \overline{) 500}$$

$$6 \overline{) 1453}$$

$$0.8 \times 0.9$$

What is the greatest common factor of the numbers 128 and 48?

If $d = 4$ and $j = -38$ then what is the value of c ?
 $11d + 9j - 3j = c$

The angles in a quadrilateral measure 111° , 103° , 106° , and b° . What is the value of b ?

B, _____, H, K, N, Q, T, W, Z

At the dive meet Jacob received scores of 5.4, 8.1, 7.8, 7.4, and 6.5. The largest and smallest scores were dropped and the rest were averaged for a final score and rounded to the nearest tenth. What is the final score Jacob received?

$$12w - 14.5 = 45.5$$

$$w =$$

Simplify.

$$\frac{4,600}{11,500} =$$

If $v = -9$ and $g = 29$ then what is the value of s ?
 $6v - 15g - 4g = s$

Name: _____

The theater was packed. This was to be Houdini's most exciting performance ever. There were rumors that he was going to do something no magician had ever tried before. It would certainly be a death-defying act! All 815 tickets had been sold. The tickets cost \$24.99 each. How much money in all had been paid for the 815 tickets sold?

National Compliment Day was here and 74% of the students at Johnsontown Elementary School had agreed to participate. The rest of the students (thirty) didn't want to compliment anyone! How many students were there at Johnsontown Elementary School in all?

Amy is making small gift bags of tea. Each bag holds $1\frac{3}{4}$ ounces of tea and sells for \$3.50. She buys the tea for \$12.60 per pound. Her other supplies cost \$0.35 per bag. How much profit (or loss) will she make per pound of tea?

Adam decided to repaint his bedroom during Jump Out of Bed Month. It took two quarts of paint to paint $\frac{1}{4}$ of his room. At a cost of \$22.23 per gallon, how much will the paint cost for his whole room?

Ms. Walker packs bags of pretzels into boxes. Each box holds 24 bags. There are 5 boxes in a case. Today Ms. Walker packed 23 cases of pretzels. How many bags of pretzels did she pack?

word root **vol** can mean **will****volunteer, volition**

Name: _____

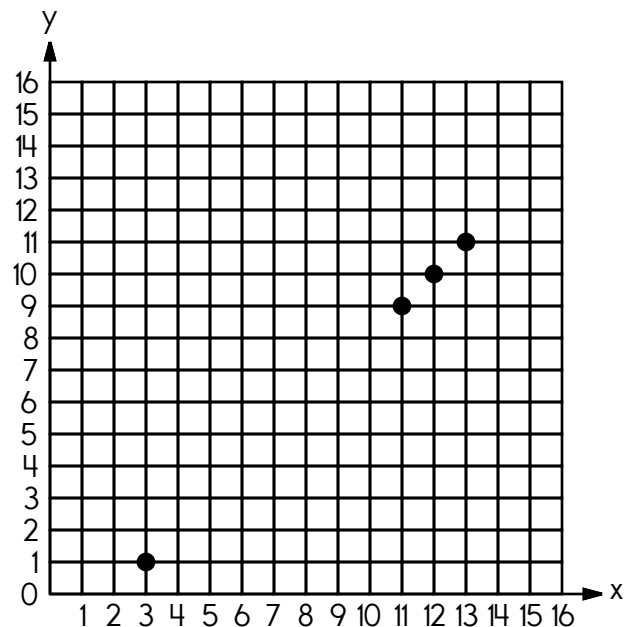
Anne's math teacher put a cup filled with jellybeans on her desk. She then asked everyone to guess how many beans were in the jar. Jacob guessed 204 and was off by 15. Sarah guessed 195 and was off by 6. Eric guessed 194 and was off by 5. Emily guessed 187 and was off by 2. Jack guessed 199 and was off by 10. Can you figure out how many beans are really in the jar?

Write a math story word problem for which

the answer is $7\frac{1}{2}$ and uses the names

Megan and Jenna.

Jessica has created a fun pet store game. The player enters the pet store where hedgehogs and hamsters are free to roam around. If the player can catch an animal, he or she can take it to his or her house. In round 1, there were three more hamsters than three times the number of hedgehogs. There are a total of 25 pets in the store. Write an equation from this information. Can you use this equation to figure out how many hedgehogs there are in the pet store?



Some of the points of a linear equation are plotted. What is the linear equation?

Name: _____

$$5 \overline{) 5.5}$$

$$8 \overline{) 8.0}$$

$$9 \overline{) 5.4}$$

$$4 \overline{) 3}$$

$$6 \overline{) 7.2}$$

$$7 \overline{) 2.8}$$

$$9 \overline{) 0.72}$$

$$7 \overline{) 1.54}$$

$$6 \overline{) 0.66}$$

Write as a decimal.
Three tenths

Write as a decimal.

$$20 \frac{4}{100}$$

Write as a decimal.

$$17 \frac{9}{10}$$

Name: _____

Jack had four dollar bills, five quarters, and seven nickels. He spent \$1.78 on a Groundhog Day poster. How much money does he have left?

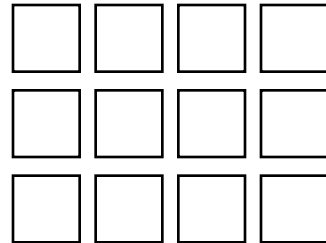
There are 155, 156, or 157 horses in the herd. The number of horses is not divisible by 2 or 5. How many horses are in the herd?

Holly's mother cuddled her. Holly went to sleep at 10:45 p.m. She woke up at 6:30 a.m. How much time passed?

One side of a square measures four centimeters. What is the area of this square?

Write the number for seven thousand, thirteen.

Color in $\frac{1}{3}$.

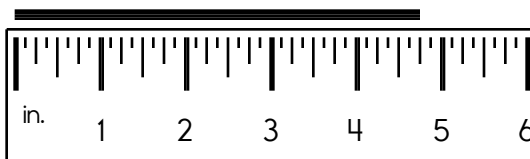


What is half of 40?

The factors of 12 are _____ 3 4 _____

$$41 + 63 = \underline{\hspace{2cm}}$$

Write the length in inches.



$$\begin{array}{r} 48 \\ + 60 \\ \hline \end{array}$$

Name: _____

The student to teacher ratio at the school built by the Peace Corps volunteers is 41:2. If there are 11 teachers in the school, how many students are there?

There are 19 students in Ms. Brown's class. During Let Reading Be Your Haven Month, the students read an average of 3.5 books each. How many books did the students read in all?

Give two answers for x in each equation.

$$| 11 + x | = 24$$

$$| -11 - x | = 22$$

Gavin took a big bowl from the kitchen to see what kind of fun party mix he could create.

He added $\frac{1}{5}$ cup of pretzels, $2\frac{1}{2}$ cups of Goldfish crackers, and $\frac{2}{7}$ cup of raisins. How many cups of food are now in the bowl?

Name: _____

		+		+		=	
	B		B		A		18
x							
	B		C		?		20
+							
	C		C		A		26
=							
	24		40		90		

Equations and Hints:

Each letter is a whole number.

Fill in the equations using the chart:

$$B \times C + C = 40 \quad _ + C + A = 26 \quad _ \times _ + _ = 24$$

$$_ + _ + _ = 18$$

Additional hints:

$$A = B + 6 \quad A > 8$$

Show Work:**Solve:**

$$? = _$$

Name: _____

Dr. Programmer typed:

```
Team1=3
Team2=5
print ("Who won the soccer game?")
if Team1 > Team2
    print ("Team1 did")
if Team2 > Team1
    print ("Team2 did")
```

The computer replied:

Who won the soccer
game?
Team2 did

```
Won By = Team2 - Team1
if Won By == 1
    print ("They won by 1 goal.")
if Won By > 1
    print ("They won by ", Won By, " goals.")
```

_____ 2

```
left at = "kitchen";
print ("Where is my phone?")
if (left at == "kitchen")
    print ("Maybe by the refrigerator?")
if (left at == "car")
    print ("It is still in the car!")
```


Today Is = "Tuesday"

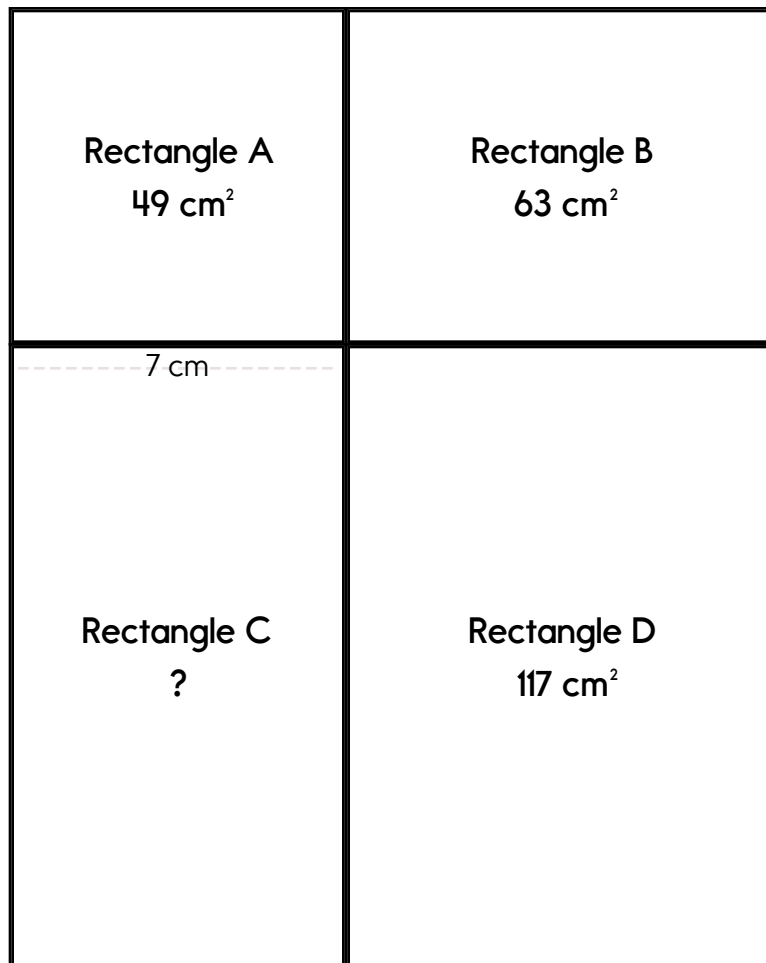
```
if (Today Is == "Monday")
    print ("soccer skills practice")
if (Today Is == "Tuesday")
    print ("volleyball practice")
if (Today Is == "Wednesday")
    print ("playdate?")
```

Name: _____

It's easy to figure out the area of a rectangle. You just multiply its width by its height.
Try to find the missing number using that equation.

Hint: For these puzzles you will NEVER need to work with decimals or fractions.

If you get a fraction, try something else!



? = _____

$$\begin{array}{r} 225 \\ + 226 \\ \hline \end{array}$$

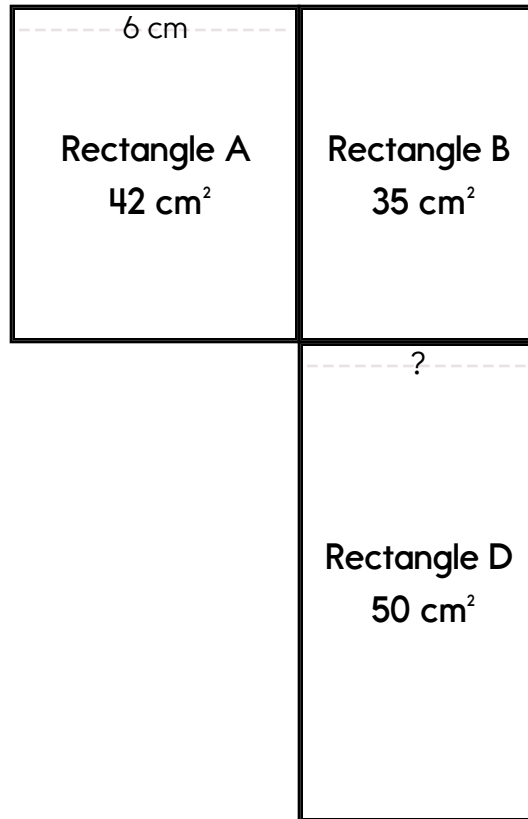
For 137,749,486,352,565, write the digit that is in the ten thousands place.

$$\begin{array}{r} 578 \\ - 184 \\ \hline \end{array}$$

$$63 \div 7 =$$

word root **crit** can mean **judge or distinguish** **critic, criterion**

Name: _____



? = _____

$20 \div 2 = \underline{\hspace{2cm}}$

Which is the better buy?
Eight bags of candy for \$16 or
two bags of candy for \$6?

$$\begin{array}{r} 49 \\ - 10 \\ \hline \end{array}$$

$6 \times 5 = \underline{\hspace{2cm}}$

$278 + 226 = \underline{\hspace{2cm}}$

1 lb = 16 oz

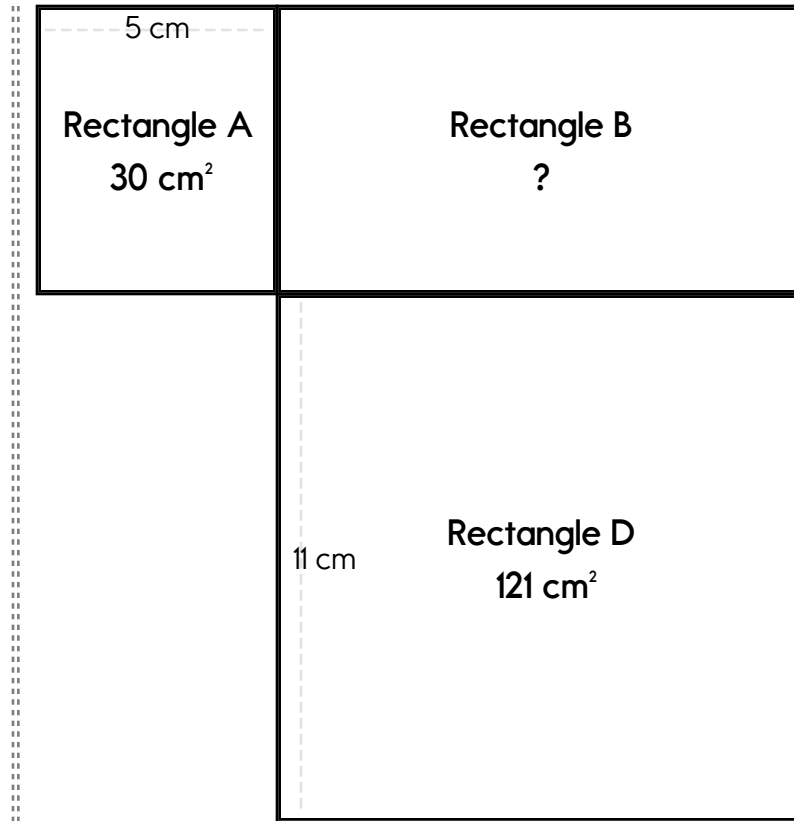
22 lb = _____ oz

Circle the addition property
for $61 + 124 = 124 + 61$.

associative property
commutative property

$$\begin{array}{r} 48 \\ + 48 \\ \hline \end{array}$$

Name: _____



? = _____

$$872 - 638 = \underline{\hspace{2cm}}$$

$$20 \div 4 = \underline{\hspace{2cm}}$$

$$36 \div 3 = \underline{\hspace{2cm}}$$

What is the largest possible sum of a two-digit number and a three-digit number? Show the two numbers.

Name: _____

Find 51% of 68.

Find 37% of 540.

8 is what % of 15?

Change to a percent.

$$\frac{2}{10}$$

Write as a percent.

$$\frac{5}{10}$$

Find 14% of 1.

$$\frac{2}{?} = \frac{10}{35}$$

Change to a percent.
0.1

1 is what % of 10?

Write the ratio as a
fraction in lowest terms.
8 to 2

Write as a percent.

$$\frac{14}{16}$$

Change to a percent.
7.56

2 is what % of 4?

Change to a fraction.
1%Write the ratio as a
fraction in lowest terms.
6 to 11

Name: _____

Two numbers have a sum of 88. The difference between the two numbers is 32. They are both positive whole numbers. What are the numbers?

Eric, Ava, and Jack are playing a game together. They first each entered their age. The game replied: "I added all of your ages together. The sum is 34. Do you know what the sum of your ages will be 5 years from now?"

Four multiplied by ten raised to what power equals forty thousand?

On a map, 0.7 inches is equal to 5 miles. Nathan wants to go from where his house is to a soccer field hosting a tournament that is 3.5 inches away. How far is the actual distance from his house to the soccer field?

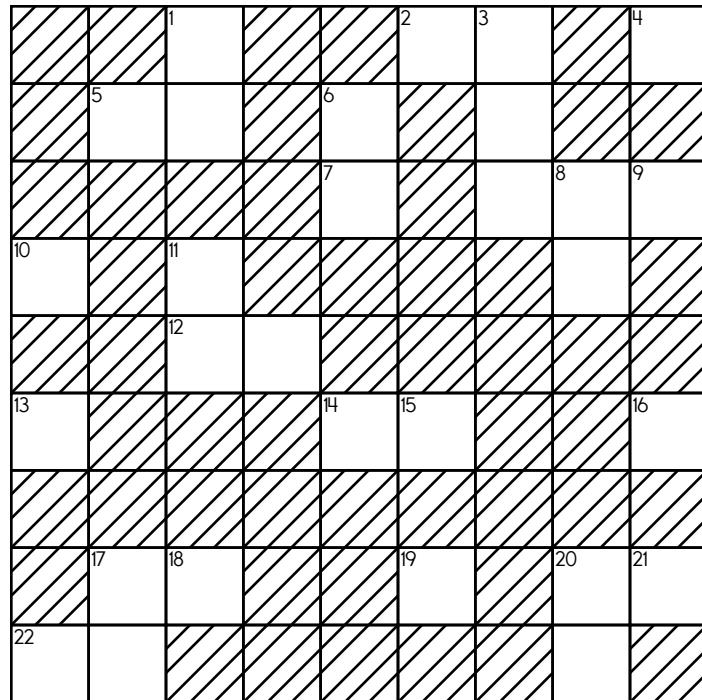
Name: _____

ACROSS

1. How many factors does 54 have?
2. Two less than 8-Across
5. What is the lowest common multiple of 16-Across and 12-Across?
7. How many factors does 16 have?
8. **13**
10. Average of 2-Across and 21-Down
12. What is the greatest common factor of 30 and 45?
13. How many factors does 39 have?
14. 14
16. How many factors does 20 have?
18. Sum of digits of 14-Across
19. What is the greatest common factor of 15-Down and 16-Across?
20. What is the lowest common multiple of 7-Across and 6-Down?

DOWN

1. Its digits total 8
3. What is the lowest common multiple of 2-Across and 17-Down?
4. What is the greatest common factor of 9-Down and 16-Across?
6. The factors of 50 are 1, 2, 5, 10, __, 50.
8. 11-Down plus 18-Across
9. 3
11. The factors of 44 are 1, 2, 4, __, 22, 44.
13. How many factors does 51 have?
15. What is the greatest common factor of 24 and 52?
17. What is the lowest common multiple of 15-Down and 9-Down?
18. What is the greatest common factor of 18-Across and 6-Down?
20. Nine times 9-Down
21. One-fifth of 20-Across
22. How many factors does 15 have?



Name: _____

Write an expression.

Subtract 7 from y

$$y - 7$$

Sum of $\frac{7}{8}$ and x Divide t by 10Divide $2m$ by 6Add 9 to q $6d$ more than 15 $3p$ less than 18Sum of v and $\frac{1}{8}$ Multiply 9 by w Add 3 to p Divide 4 by $7v$ Sum of w and $\frac{1}{4}$

Name: _____

Connor took a big bowl from the kitchen to see what kind of fun party mix he could create.

He added $2\frac{1}{5}$ cups of Goldfish crackers, $\frac{3}{4}$ cup of Cheerios, $1\frac{1}{3}$ cups of raisins, and $1\frac{5}{7}$ cups of pretzels. How many cups of food are now in the bowl?

Consistent Claire loves practicing her free throws. She is so consistent. Every game she gets the same percentage of free throws in the hoop. In the last game she played, Claire made 18 of 24 attempted free throws. In today's game, she attempted 16 free throws. If her percentage for this game is the same as her last game, how many of them went in?

Anna has given powers to her collection of dolls. There are the F dolls and the B dolls. Today, she is having a match between one F doll and one B doll. The doll with more power will win. Who will win?

Four F dolls have 5 power points.

Five B dolls have 3 power points.

Name: _____

Show the steps to solve $9(34 - 8 - 13) \times 11 \div 11 + 636 + 993$.

Step 1. Parentheses

Step 2. Exponents

Step 3. Multiplication & Division (or Division & Multiplication!)

Step 4. Addition & Subtraction (or Subtraction & Division!)

Ava lives at the point $(-13, 12)$. She wants to go to the closest mall. There are two malls on the map. Mall AA is at $(-11, 4)$, and Mall BB is at $(-11, 3)$. On the map she can only travel vertically or horizontally, one unit at a time. She cannot go diagonally. So she could go from $(1,3)$ to $(1,4)$ or $(1,3)$ to $(2,3)$, but not from $(1,3)$ to $(2,4)$. Which mall is closer to her?

Wendy needs to make these two fractions equal. Help her find the missing number!

$$\frac{24}{36} = \frac{??}{90}$$

Name: _____

Here is a chart on turns to help you answer the questions.

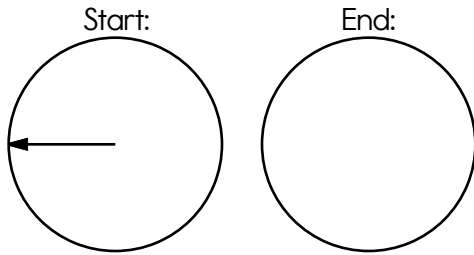
A $\frac{1}{4}$ turn is 90° .

A $\frac{1}{2}$ turn is 180° .

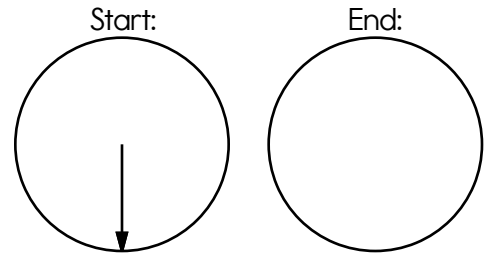
A $\frac{3}{4}$ turn is 270° .

A full turn is 360° .

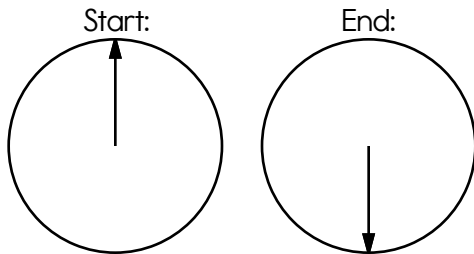
From the start position the pointer turns $\frac{3}{4}$ clockwise. Draw the arrow for the end position.



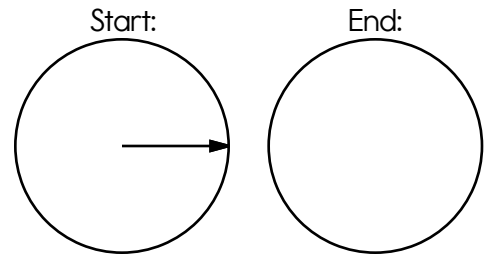
From the start position the pointer turns $\frac{3}{4}$ clockwise. Draw the arrow for the end position.



The start and end positions are shown. Explain the turn that was made.



From the start position the pointer turns 90° clockwise. Draw the arrow for the end position.



An angle that is 249 degrees is

between a -turn and a -turn.

Two right angles equals a -turn.

Hailey is playing a game. She stands in the middle of a circle.

At the start of the game she faces north.

Then she makes a $\frac{1}{2}$ -turn counterclockwise.

In which direction is she now facing?

Name: _____

Complete each pattern. Write what the rule is. HINT: The first three numbers in each pattern are random numbers.

4.2, 24.8, 9.3, 38.3, 72.4, 120, 230.7,
423.1, 773.8, 1427.6, 2624.5, _____, _____, _____

10.1, 7.1, 6.6, 23.8, 37.5, 67.9, 129.2,
234.6, 431.7, 795.5, 1461.8, _____, _____

Complete each pattern, using the same rule. Write what the rule is.

6, 66, 69, 759, 762, 8382, 8385, _____, _____, _____

3, 33, 36, 396, 399, 4389, _____, _____

9, _____, _____, _____, 1125

Name: _____

Eighteen exceeds one-half of a number by 10. What is the number?

Eleven less than 3 times a number is 25. What is the number?

Four-fifths of a number equals 192. What is the number?

If seven is added seventeen times to a number, the result is 183. What is the number?

A number plus 22 is forty-eight. What is the number?

120,000 and 7,000,000 added to a number is 7,910,463. What is the number?

Name: _____

The sum of twenty-two and twenty is forty-one more than a number. What is the number?

Three times a number is $13\frac{1}{5}$. What is the number?

594 exceeds eight times a number by 74. What is the number?

Fifty-two less than a number is five. What is the number?

One hundred two less than three-fifths of a number equals 6. What is the number?

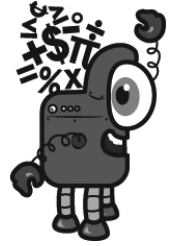
If a number is increased by 47, the result is 123. What is the number?

Name: _____

Mental Math

— #1 —

- ❖ Start with the number of legs on 8 chickens.

16

- ❖ Divide that number in half.

8 2 4 5 1 0 2 7 8 8 (Circle your answer to double check you are correct.) _____

- ❖ Add two-thirds of a dozen.

1 9 1 6 3 8 6 5 9 0 _____

- ❖ Triple that number.

1 2 8 1 4 8 5 7 9 4 _____

- ❖ Add the number of pennies in a dollar.

1 4 8 5 3 2 1 8 5 2 _____

- ❖ Add half of 44.

7 8 4 1 7 0 1 0 5 1 _____

- ❖ Add the number of inches in 2 feet.

6 1 9 4 1 0 3 1 2 5 _____

- ❖ Divide that number in half.

9 3 2 7 1 6 4 9 7 8 _____

- ❖ Increase that number by 5.

6 8 1 0 2 9 1 1 5 6 _____

- ❖ Add half of 50.

6 6 2 3 1 2 7 0 4 8 _____

- ❖ Add the number of pennies in a dollar.

6 0 4 5 3 2 2 7 8 2 _____

Name: _____

In 9 years, Amanda will be three-fifths of Anna's age. Right now the sum of the ages of Anna and Amanda is 62 years. Who is older and what is their current age?

The sum of two numbers is -15. The difference between the numbers is 123. If the numbers are integers, what are possible values?

Change $\frac{42}{70}$ to a decimal.

$$\begin{array}{r} 76,463 \\ - 53,932 \\ \hline \end{array}$$

$$\begin{array}{r} 1,469,430 \\ - 90,926 \\ \hline \end{array}$$

Name: _____

Ready to make equations? There is a missing equation in each box.
Circle the numbers once you find it!

A 79 **75** 82

- 69 29 21

94 64 46

89 76 57

Find a
subtraction fact.

B 27 60 **40**

- 80 93 72

28 62 56

79 75 39

Find a
subtraction fact.

C **3** 69 32

- 12 19 78

80 75 34

10 33 64

Find a
subtraction fact.

Equations:

Write the equation facts you found.

A**75**

-

=

B

-

=

40**C**

-

3

=

$12 \div \frac{1}{4}$

Round the decimal 0.355 to
the nearest hundredth.

Pick the family fact that is
missing.

$68 \div 17 = 4$

$17 \times 4 = 68$

$68 \div 4 = 17$

How many centimeters in
9.3 meters?

$12 \div 4 + 10$

F, I, H, J, J, K, L, L,

_____, M

Name: _____

$$50 \overline{) 150}$$

Divide and write remainder.

$$\begin{array}{r} 904 \\ - 49 \\ \hline \end{array}$$

Divide and write remainder.

$$101 \div 9 =$$

$$\begin{array}{r} \frac{5}{6} \\ + \frac{2}{3} \\ \hline \end{array}$$

Find the least common denominator.

$$\frac{2}{9} \text{ and } \frac{55}{72}$$

Write the reciprocal.

$$\frac{1}{15}$$

$$0.07 \overline{) 0.00609}$$

Rewrite as a vertical equation and solve.
 $17.5 - 14.968 =$

$$8 \overline{) 3.12}$$

$$\begin{array}{r} 3.7 \\ - 1.6 \\ \hline \end{array}$$

$$\begin{array}{r} 37.85 \\ \times 18.83 \\ \hline \end{array}$$

$$7.3 \times 10,000 =$$

Name: _____

Alexis got out of class at 3:10. She talked with friends for two-fourth of an hour. She then walked home which took one-sixth of an hour. What time did she arrive home?

- A) 3:40
- B) 3:50
- C) 4:00
- D) 3:20

The diameter of a circle painted by Michael is 8 feet. What is the length of its radius?

- A) 13.5 feet
- B) 4 feet
- C) 15.5 feet
- D) 16 feet

A polygon has fifteen sides. How many vertices does the polygon have?

- A) 17
- B) 15
- C) 14
- D) None of the above

What number is missing from the following sequence?

113, 103, 93, 83, 73, ____, 53

- A) 54
- B) 70
- C) 63
- D) None of the above

Given the digits 1, 6, and 4, how many different three-digit numbers can you create greater than 400 if you can only use each digit once for each different number?

- A) 12
- B) 4
- C) 8
- D) 5

11 meters =

- A) 110 centimeters
- B) 110 millimeters
- C) 1.1 kilometers
- D) 11000 millimeters

Name: _____

ACROSS

1 $8204 - 8$

a. answer: 8 1 9 6

765, 708, _____, 594

b. answer: 6 5 1

Full 1 across answer:

<u>8</u>	<u>1</u>	<u>9</u>	<u>6</u>	<u>6</u>	<u>5</u>	<u>1</u>
a	a	a	a	b	b	b

2 $15, 18, 21, 24, \underline{\hspace{1cm}}$

3 Solve for y.

$$\frac{7}{9} \cdot \frac{3}{5} = \frac{21}{y}$$

6 $38.2 + 21.4$

8 Round 28.9 to the nearest whole number.

10 Write the numeral eight hundred forty-one.

11 $51, 58, 65, 72, \underline{\hspace{1cm}}$

13 What decimal is precisely halfway between 27.5 and 27.7?

14 $552 - 6$

15 $5, 25, 45, \underline{\hspace{1cm}}$

DOWN

1 What decimal is precisely halfway between 89.4 and 89.6?

2 0.3×9

3 30% of 14

4 $5.69 = \underline{\hspace{1cm}} \%$

5 Which is closer to a multiple of 8?
915 or 914a. answer:

Round 9367.3 to the nearest whole number.

b. answer:

Full 5 down answer:

<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
a	a	a	b	b	b

7 $2522 - 8$

a. answer:

506, 548, 590, _____

b. answer:

Full 7 down answer:

<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
a	a	a	a	b	b

9 $5.43 = \underline{\hspace{1cm}} \%$

a. answer:

537, 509, _____, 453

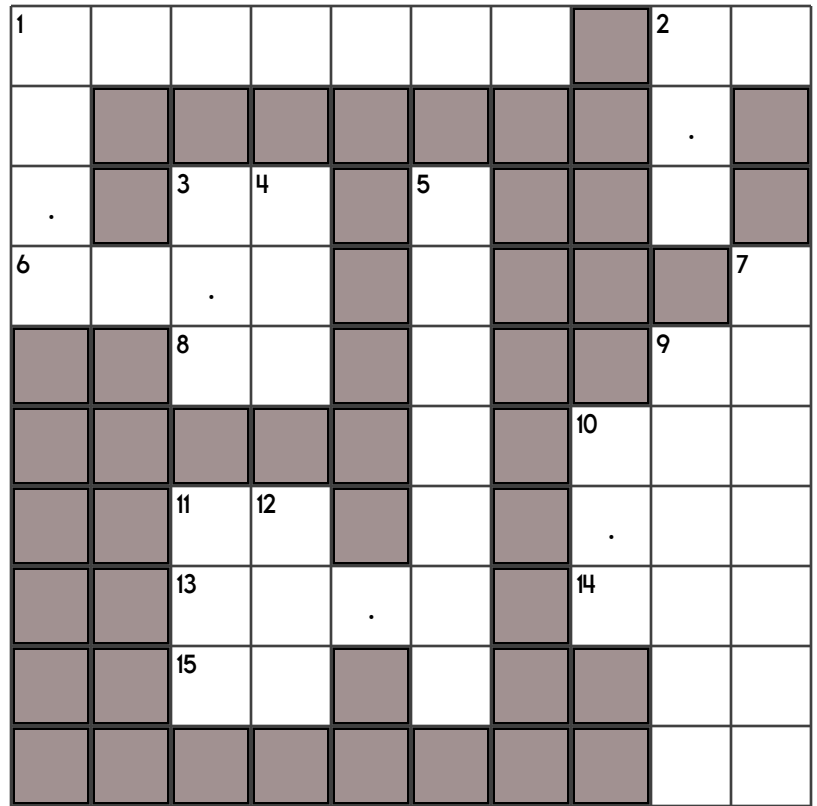
b. answer:

Full 9 down answer:

<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
a	a	a	b	b	b

10 What decimal is precisely halfway between 8.2 and 8.8?

11 $66 \div 11 \cdot 121$

12 length = 5 cm, width = 15 cm, height = 13 cm,
volume = _____ cm^3 

Name: _____

This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.

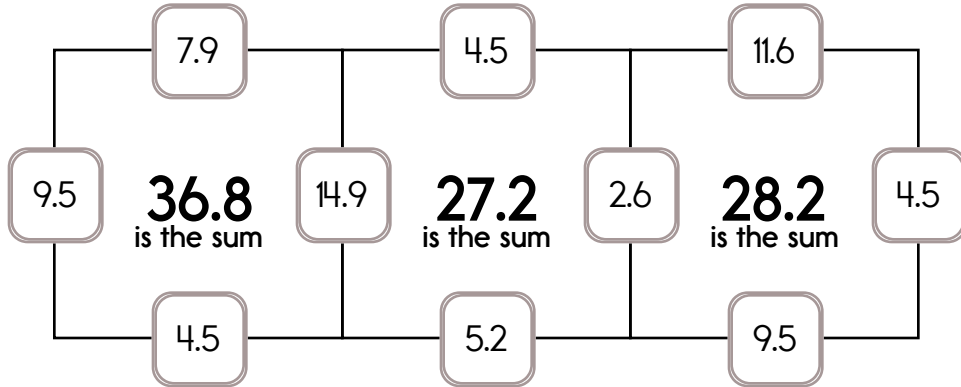
Example:

$$9.5 + 14.9 + 7.9 + 4.5 = 36.8$$

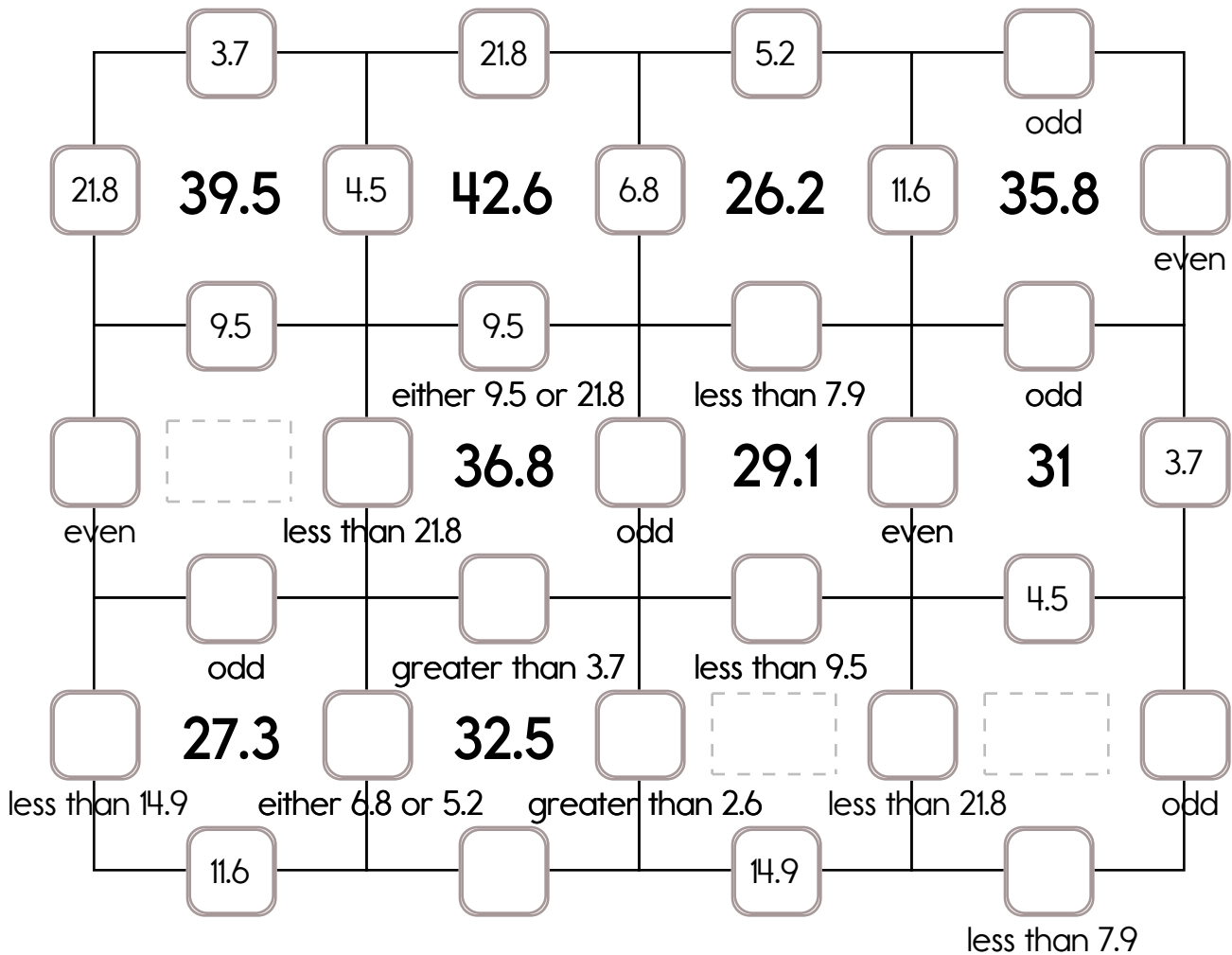
Example:

$$2.6 + 4.5 + 11.6 + 9.5 = 28.2$$

Sample:



Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: 21.8, 14.9, or 11.6. The other three numbers have to all be DIFFERENT and must be from these: 5.2, 3.7, 2.6, 7.9, 4.5, 6.8, or 9.5.



Name: _____

Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: 19.3, 29.5, or 27.1. The other three numbers have to all be DIFFERENT and must be from these: 3.2, 8.6, 4.1, 5.3, 0.3, or 9.2.

	29.5			3.2		5.3	
9.2	47.2	3.2	39.8	9.2			19.3
			odd		even		
	5.3		either 27.1 or 8.6		greater than 3.2		less than 19.3
	42.4		odd		even		even
less than 29.5			odd		odd		less than 29.5
	greater than 5.3		odd		odd		less than 29.5
3.2	40.3		52.6		41.6		48.1
	either 19.3 or 9.2		either 29.5 or 19.3		even		odd
	either 0.3 or 8.6		greater than 5.3				either 5.3 or 3.2
	43		50.5		41.9		39.7
odd	less than 29.5		either 19.3 or 9.2		either 27.1 or 19.3		even
	even		odd		greater than 0.3		either 29.5 or 5.3
	43		42.2				
	odd		even		less than 29.5		either 8.6 or 4.1
	either 27.1 or 3.2				even		greater than 0.3



Name: _____

Ready for a challenge? See how long this takes.

My starting time: _____ : _____ and _____ seconds.

My ending time: _____ : _____ and _____ seconds.

$$4 + 40 \div 5 - 48 \div 12 =$$

$$\frac{5}{6} \times \frac{1}{6}$$

Each side of a regular pentagon is 15.7 centimeters. What is the perimeter?

$$t - 6 + t = 24$$

What is the value of t?

$$(3 + 4 + 5 + 14) =$$

$$8 + (24 \div 3) - 27 \div 9 =$$

$$7 + 4 - 5$$

If $a = 5$ and $b = 6$,
then
 $4a + b =$

Use $>$, $<$, or $=$ to complete.

$$29\% \text{ } \underline{\hspace{1cm}} \text{ } \frac{1}{8}$$

$$\frac{3}{12} \text{ } \underline{\hspace{1cm}} \text{ } 69\%$$

$$15\% \text{ } \underline{\hspace{1cm}} \text{ } \frac{1}{2}$$

If
100,000
 $= 10^x$, then what is the
value of x?

80, 90, 100, 110, _____, 130

What is the mode of the
following number set?

50, 72, 61, 73, 69, 68, 62, 70,
52, 58, 54, 53, 65, 49, 55, 67



Name: _____

Ready for a challenge? See how long this takes.

My starting time: _____ : _____ and _____ seconds.

My ending time: _____ : _____ and _____ seconds.

If $3x = 48$, then $x =$

$8.9426 \times 10^4 =$

2, 6, 2, 6, _____, 6, 2, 6,
2, 6Find the least common
denominator for the
fractions $\frac{5}{35}$ and $\frac{9}{15}$.A circle graph has four
sections. Only three
sections are labeled. The
labels are 38.56%, 15.39%,
and 11.05%. What should
the missing section be?Convert $53\frac{11}{12}$ to an
improper fraction.

$|-7| - f = 12$

$f =$

$\frac{1}{7} \div \frac{14}{21} =$

Simplify.

$\frac{8,800}{39,600} =$

$0.7(0.3(0.7 + 4)) =$

$(2 + 15) + 3 = 2(v + 7)$

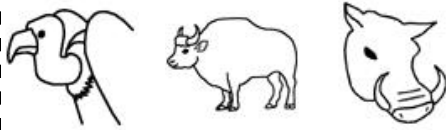
What is the value of v ?In what quadrant would
you find the point (11, -17)?

Name: _____

Draw 3 pictures in the correct order. Use each of the clues so you will know what to draw.

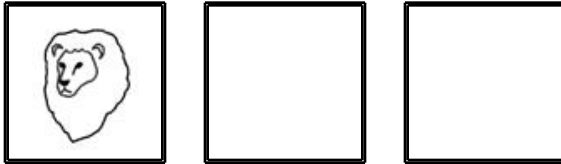


Draw 1 of these 3 pictures.
The picture is NOT in the correct spot.



Draw 1 of these 3 pictures.
The picture is NOT in the correct spot.

Draw the 3 pictures in the correct order:



Draw 1 of these 3 pictures.
The picture IS in the correct spot.



Draw 2 of these 3 pictures.
1 of those pictures is in the correct spot.

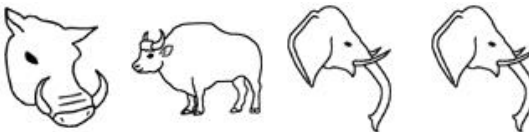
Draw 4 pictures in the correct order. Use each of the clues so you will know what to draw.



Draw 1 of these 4 pictures.
The picture is NOT in the correct spot.

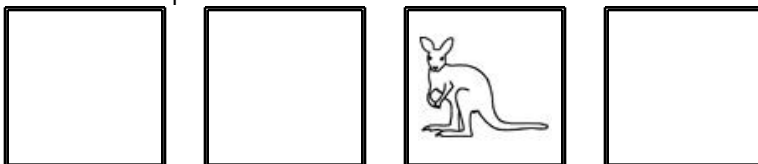


Draw 1 of these 4 pictures.
The picture IS in the correct spot.



Draw 1 of these 4 pictures.
The picture IS in the correct spot.

Draw the 4 pictures in the correct order:



Draw 1 of these 4 pictures.
The picture is NOT in the correct spot.



Draw 2 of these 4 pictures.
None of those pictures are in the correct spot.

Name: _____

Fill in each box of the edHelperKu puzzle, using the numbers from 1 to 5.

Every row must contain the numbers 1, 2, 3, 4, and 5.

Every column must contain the numbers 1, 2, 3, 4, and 5.

In a cage with a plus sign, the given number will be the sum of all the digits in the cage.

10+	1	9+ 2		3
		3		9+
9+ 2		7+	4	
10+				3+
	2	7+		

Fill in the blanks. These equations are from the puzzle above.

$$4 + \underline{\quad} = 9$$

$$2 + \underline{\quad} + \underline{\quad} = 9$$

$$1 + \underline{\quad} + \underline{\quad} = 7$$

$$\underline{\quad} + 1 + \underline{\quad} = 10$$

$$\underline{\quad} + \underline{\quad} + 2 = 10$$

$$2 + \underline{\quad} = 3$$

$$2 + \underline{\quad} + \underline{\quad} = 9$$

$$\underline{\quad} + 3 = 7$$

Name: _____

Fill in each box of the edHelperKu puzzle, using the numbers from 1 to 6.

Every row must contain the numbers 1, 2, 3, 4, 5, and 6.

Every column must contain the numbers 1, 2, 3, 4, 5, and 6.

In a cage with a plus sign, the given number will be the sum of all the digits in the cage.

In a cage with a subtraction sign, the given number will be the difference. The largest number will always be the box with the clue.

12+	4	4-		1-	
4+		14+	3	2-	5
			2-		4+
3-	1	8+	8+		
	3-		3	1-	
4		2	4-		6

Fill in the blanks. These equations are from the puzzle above.

$$\underline{\quad} + 4 + \underline{\quad} = 12$$

$$5 - \underline{\quad} = 4$$

$$\underline{\quad} + 3 = 4$$

$$\underline{\quad} + 6 = 8$$

$$1 + \underline{\quad} = 4$$

$$5 - \underline{\quad} = 3$$

$$\underline{\quad} - 3 = 3$$

$$\underline{\quad} - 2 = 1$$

Name: _____

What number multiplied by -9 results in a product of -108 ? _____

Write the number that when multiplied by 8 is -48 . _____

Wendy is mapping an imaginary trip from point $(-1, 6)$ to $(13, 6)$. She liked $(13, 6)$ so much that she was there for 11 days! Then she went to visit point $(13, 1)$. Aren't you jealous? If 1 unit = 85 miles, how many total miles did she travel?

Adam has a headache. He can't stand long lists. "Can you repeat that again?" he asks. "It's easy. Name a number that is greater than 24, less than 33, is a multiple of 2, and FINALLY is a factor of 52," replies Jacob.

Name: _____

Michael's dimes and quarters total \$18.10. If the dimes were replaced by nickels then he would have \$16.80. How many of each coin does he have?

Nicole has \$8.10 in dimes and pennies. Nicole has four more pennies than dimes. How many of each coin does she have?

Jordan has thirty-two fewer nickels than pennies. Jordan has a total of thirty-six pennies and nickels. How many of each coin does he have?

Cody has a total of three hundred forty-four coins. He has four times as many nickels as quarters and one-third as many quarters as dimes. How much money does he have?

The value of a mix of Tyler's quarters and dimes is \$7.25. If the quarters were replaced by pennies, the value would be \$2.21. How many of each coin does he have?

Isaac took a certain number of nickels from Katherine. He then gave Katherine the same number of dimes in return. Isaac had \$0.60 more than he had before the exchange. What was the number of dimes that Isaac gave Katherine?

Name: _____

The Amazing Avril retired after performing 3,366 magic shows. If he performed 90 shows per year, for how many years had he been performing? Round your answer to the nearest tenth.

Adam made a diorama of a rainforest canopy. He built the diorama in a box that measured 12 inches x 5 inches x 9 inches. What is the volume of the box?

Queen Victoria lived 82 years after a reign of 60 years. Write the fraction of her life she spent as Queen of England as a fraction in simplest form.

"Simplify your life. Find extra minutes or even hours in your day. You can have at least 45% more free time. To find out how, just send us \$25 today," the television announcer trumpeted. Write 45% as a decimal.

An image taken on February 21, 1994, by the Hubble Space Telescope shows Pluto and its moon, Charon. At the time, the planet was 4.4 billion kilometers (2.7 billion miles) from the Earth. Find a rational number between 4.4 billion and 4.3 billion.

Their enemies called the Vikings' longship, or drakkar, the "dragon ship." The average length of a drakkar was approximately 86 feet. What was the average length of a drakkar in meters? Round off your answer to the nearest meter. (1 foot = 0.3 meter)

Name: _____

Miss Miller, the Spanish teacher at Lakeland High School, needs some books about Spanish history, geography, and culture for her class. The school librarian found 42 books for her. Miss Miller signed out 24 of the books. What is the ratio of books signed out to books not signed out? Express your answer as a fraction in lowest terms.

The Planning Committee decided to have a picture of Paul Revere tiled into a circle in the floor of the library. The circle has a diameter of 46 inches. How many $\frac{1}{2}$ -inch square tiles will be needed to cover the circle? (Note: Round off to the nearest whole tile.)

Max needs \$38.53 to buy flowers for his mother on Forget Me Not Day. He has \$8.44. If he saves \$4.25 each week, how many weeks will it take him to save enough money to buy the flowers?

The Coca-Cola Company donated 39 cases of Coke products for the Mars Middle School annual picnic. There are 4 dozen bottles per case. Each bottle contains 16 ounces of beverage. How many pints of Coke did the Coca-Cola Company donate?

There were 15 messages on the answering machine when Robert arrived. Two of the messages were from Max. What are the odds that the first message will be from Max? Write your answer as a percent.

Name: _____

$$60 \overline{) 1288}$$

Divide and write remainder.

$$\begin{array}{r} 368,885 \\ - 3,064 \\ \hline \end{array}$$

Divide and write remainder.

$$\frac{90}{8} =$$

$$\begin{array}{r} \frac{8}{9} \\ - \frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 6\frac{1}{2} \\ - \frac{3}{11} \\ \hline \end{array}$$

Find the least common denominator.

$$\frac{12}{18} \text{ and } \frac{71}{81}$$

Change $\frac{5}{20}$ to a decimal.Change $\frac{8}{10}$ to a percent.

Change to percents.

$$\frac{30}{100} =$$

$$\frac{88}{100} =$$

$$\frac{7}{10} =$$

$$\frac{5}{10} =$$

$$\frac{79}{100} =$$

$$\frac{19}{100} =$$

Name: _____

Change 5% to a decimal.

Change 21% to a decimal
and a fraction expressed in
its lowest terms.

36 is what percent of 240?

Find 75% of 220.

Change to percents.

$$\frac{69}{100} =$$

$$\frac{8}{10} =$$

$$\frac{12}{100} =$$

$$\frac{75}{100} =$$

$$\frac{30}{100} =$$

$$\frac{6}{10} =$$

Find 6% of 100.

Change $\frac{3}{6}$ to a
decimal.Change $\frac{1}{10}$ to a
percent.

Find 71% of 114.

Change $\frac{3}{10}$ to a
decimal.

Change 0.50 to a percent.

Change $\frac{10}{25}$ to a
decimal.

Name: _____

**FUN
BREAK!**

Play a game online!

edHelper.com/math-games.htm**I PLAYED
ONE
GAME**☐(Check the
box after
you play.)**MY SCORE**



0.05×0.8

$7 \times 7 \times 7 \times 7 = 7^x$

What is the value of x?

Simplify.

$\frac{56}{196} =$

$(729), (81), (9), (1),$

$\frac{1}{9}, \text{ ————— }, \frac{1}{729}, \frac{1}{6561}$

$\frac{1}{59049}$

$(12 + 7 + 4 + 9) =$

$0.14 \cdot 4 =$

Name: _____

There were two amusement parks. It took about 1 hour and 30 minutes to drive to one of them and 1 hour and 25 minutes to drive to the other. How much time would be saved by driving to the closer amusement park?

Kevin took a bicycle trip on a Saturday afternoon. Now, knowing that there are 100 centimeters in a meter, and 1,000 meters in a kilometer, how many centimeters did he ride if his trip was 4.6 kilometers long?

You are given a set of numbers. This set has a mean and a median. Explain how the median of the set might not be a member of the set.

Hunter called five people to tell them a secret; they each called and told three more, and then those people each called and told three more. How many people (including Hunter) now know the secret?

David counted the seeds in 15 apples and found out that there was an average of 6.24 seeds per apple. At that rate, how many seeds would there be in 21 apples?

According to a survey, 82% of adults in the United States pray at least once a week. Out of a group of 5,000 adults, approximately how many pray at least once a week?

Circle the percentage that is closest to 20 out of 80:

- 96%
- 12%
- 46%
- 28%

$$6 + 78 \div 6 - 50 \div 10 =$$

$$t - 5 + t = 29$$

What is the value of t ?

Name: _____

Ava was reporting from the Megalopolis International Raceway. The fastest speed so far in the qualifying laps was 198.7 miles per hour. Unfortunately, the numeric keypad on her computer was not working, and she had to spell out the speed in words. What did she write?

Gavin has his little brother convinced that he is a genius. He asks his little brother to write down a three digit number on a piece of paper and then show it to him for five seconds. After the five seconds are up, Gavin tells his brother if the number is divisible by both 3 and 5, and he is right every time. How does he do it?

Eric asked 7 students how many hot dogs they had eaten during June. The answers were 2, 5, 6, 4, 3, 5, and 6. What is the range of his data?

A school play (with three acts) started at 6:00 p.m. and lasted until 7:26 p.m. Half the time was spent on Act 1 and $\frac{1}{3}$ of the time was spent on Act 2. How many minutes were spent on Act 3?

Sara has 2 toe rings, 4 bracelets, and 5 finger rings. If she wants to wear one of each, how many different combinations can she choose from?

In what quadrant would you find the point (7, -2)?

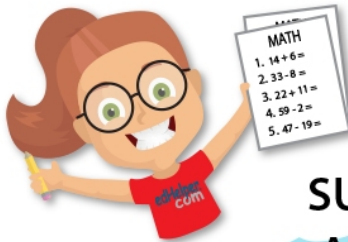
$p - \$51 = \35
What is the value of p ?

$7 \times 7 \times 7 \times 7 \times 7 = Z^y$
What is the value of Z and y ?

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$\times = - \div < - >$

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