

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

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

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

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

$$\underline{\quad} - 3 = 1$$

$$\underline{\quad} - 3 = 1$$

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

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

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

$$\underline{\quad} - 3 = 1$$

$$6 - \underline{\quad} = 4$$

Name: \_\_\_\_\_

Change to percents.

$0.4 = \underline{\hspace{2cm}}$

$0.99 = \underline{\hspace{2cm}}$

$0.62 = \underline{\hspace{2cm}}$

$0.32 = \underline{\hspace{2cm}}$

$0.07 = \underline{\hspace{2cm}}$

$-26 + 18 =$

Change to a percent.

$\frac{28}{10}$

Change  $\frac{2}{4}$  to a decimal.

$$\begin{array}{r} 5.917 \\ - 1.195 \\ \hline \end{array}$$



What kind of angle is this?

$$\begin{array}{r} \frac{1}{3} \\ - \frac{2}{7} \\ \hline \end{array}$$

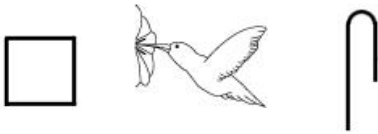
Write all the factors for the number 33.



What kind of angle is this?

Name: \_\_\_\_\_

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

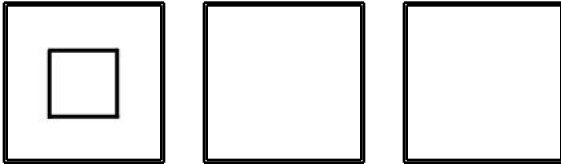


Draw 1 of these 3 pictures.  
The picture IS in the correct spot.



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

Draw the 3 pictures in the correct order:

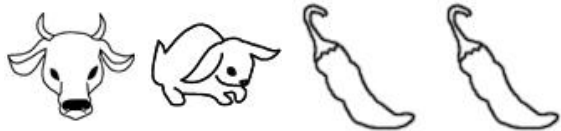


Draw 1 of these 3 pictures.  
The picture IS in the correct spot.

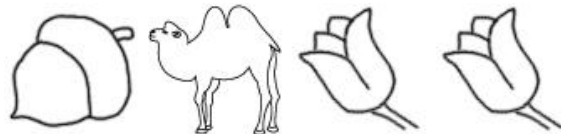


Draw 1 of these 3 pictures.  
The picture IS in the correct spot.

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.

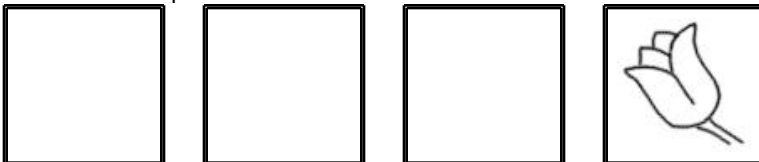


Draw 1 of these 4 pictures.  
The picture IS in the correct spot.



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: \_\_\_\_\_

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

Six times a number is  $21\frac{3}{7}$ . What is the number?

One hundred thirty-two less than 11 times a number is 11. What is the number?

328 exceeds six times a number by 76. What is the number?

Twenty-six less than three-fourths of a number equals 37. What is the number?

If seven is added eighteen times to a number, the result is 165. What is the number?

Name: \_\_\_\_\_

Four-sixths of a number equals 2,672. What is the number?

If a number is decreased by 20, the result is 4. What is the number?

A number plus 85 is one hundred thirty-seven. What is the number?

Fifty-seven less than a number is seven. What is the number?

Three-sixths of a number equals 45. What is the number?

Seventeen exceeds one-third of a number by 13. What is the number?



Name: \_\_\_\_\_

Ready for a challenge? See how long this takes.

My starting time: \_\_\_\_\_ : \_\_\_\_\_ and \_\_\_\_\_ seconds.

My ending time: \_\_\_\_\_ : \_\_\_\_\_ and \_\_\_\_\_ seconds.

In what quadrant would you find the point  $(-2, 14)$ ?

$$13n - 8.2 = 30.8$$

$$n =$$

$$p - \$56 = \$33$$

What is the value of  $p$ ?

$$0.008 \times 0.2$$

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

$$7 + 10 \times 3 + 10$$

$$3 \times 3 = Z^y$$

What is the value of  $Z$  and  $y$ ?

Rewrite  $\frac{7}{100}$  as a decimal.

$$6 + (70 \div 7) - 72 \div 9 =$$

If  $s = 6$ ,  $g = -7$ , and  $j = 2$  then what is  $s + g - j$ ?

$$(7,776), (1,296), (216),$$
$$\text{_____, } (6), (1), \frac{1}{6},$$
$$\frac{1}{36}, \frac{1}{216}$$

Rewrite as an algebraic expression or equation.

The quotient of 112 and  $f$  is 8.



Name: \_\_\_\_\_

Ready for a challenge? See how long this takes.

My starting time: \_\_\_\_\_ : \_\_\_\_\_ and \_\_\_\_\_ seconds.

My ending time: \_\_\_\_\_ : \_\_\_\_\_ and \_\_\_\_\_ seconds.

$$(0.6)(0.15)$$

$$463 \div 10$$

$$0.8 (0.7 (0.8 + 7)) =$$

37, 52, 67, \_\_\_\_\_, 97, 112,  
127, 142, 157, 172

$$30 - t + 12 = 29$$

What is the value of  $t$ ?

$$(8 + 19) + 5 = 2(v + 12)$$

What is the value of  $v$ ?

A circle graph has five sections. Only four sections are labeled. The labels are 20%, 9%, 21%, and 18%. What should the missing section be?

What is the perimeter of a rectangle with a length of 26 centimeters and a width that is  $\frac{1}{2}$  the length?

What is the mode of the following number set?

65, 65, 65, 61, 61, 65, 65, 71, 71,  
56, 67, 64, 68

If  $x = -4$  and  $v = 44$  then what is the value of  $p$ ?  
 $7x + 9v - 4v = p$

$$0.3 \times 0.5$$

$$|-15| - j = 22$$

$$j =$$

Name: \_\_\_\_\_

Ms. Floop had 1877 eggs to package. She can fit three dozen into a pack. How many eggs will be left after she fills as many complete packs as she can?

Ms. Floop completed a long calculation using her calculator and ended up with the following result: 44.503854255737. She knew that her initial data were not that precise, so she rounded to the nearest hundredth. What was the rounded result?

Justin practiced his clarinet for 35 minutes each day except Sundays. (He took Sundays off.) If he followed this schedule for 9 weeks, how long would he have practiced?

Sometimes you have to compare two exponential expressions to determine which one has the largest value. If two expressions have the same base, how can you quickly tell which one has the largest value?

A rectangular playground at Bigtown Middle School has a perimeter of 400 meters, and one of the sides is 120 meters long. What is the area of the playground?

Rose found the sum of the first 6 prime numbers and obtained a result of 29. What mistake did she most likely make?

What is the remainder of 93 divided by 19?

$t - 10 + t = 32$   
What is the value of  $t$ ?

Simplify.

$$\frac{3,200}{4,800} =$$

Name: \_\_\_\_\_

Peter wanted to create a computer program to simulate a probability game. The game was based on removing colored marbles from a bag. He experimented with an actual bag of marbles a bit before beginning to write his program. In one example he thought about, there were 10 marbles in the bag -- 4 red, 4 blue, and 2 green. He removed one blue marble from the bag. If he then took a marble at random from the bag, what is the probability it would be blue?

Alex walked to the corner store to buy some Gnarly-Qs. He was not in much of a hurry, so it took him 19 minutes to walk the  $\frac{1}{2}$  mile distance. Drat! He forgot that a big game was coming on TV, and he had to hurry to get home. He made the homebound leg of the trip in 9 minutes. What was his average speed (in miles per hour) for the round trip (ignore any time he spent at the store)? Round your answer to the nearest tenth.

If a die is rolled 10,300 times, according to theoretical probability, how many times should an even number come up?

Joe's nursery just received a shipment of 3.55 tons of oak firewood. He sells it in 20-lb lots. How many lots can he make from 3.55 tons?

Megan got her test score back in geometry class. She answered 82% of the 45 questions correctly. How many questions did she get correct? You may have to round your answer to the nearest whole number.

Name: \_\_\_\_\_

Jacob has a total of forty pennies and quarters. If Jacob had eleven more quarters, the total value of the coins would be \$7.47. How much money does he have?

Matthew has a total of one hundred fifty-six pennies, nickels, and quarters. He has four and a half times as many pennies as quarters and one-half as many nickels as quarters. How many of each coin does he have?

Anthony has a total of forty-nine pennies and quarters. The pennies come to \$7.57 less than the pennies. How many of each coin does he have?

Alexandra has nickels, dimes, and quarters. She has a total of \$10.65. She has fourteen more quarters than dimes and six times as many nickels as dimes. How many of each coin does she have?

Name: \_\_\_\_\_

Robert has nineteen more dimes than quarters. Robert has a total of \$13.10. How many of each coin does he have?

Jennifer's quarters and pennies total \$9.44. If the quarters were replaced by dimes then she would have \$4.20. How many of each coin does she have?

Alexander's pennies and nickels total \$1.15. His nickels and dimes total \$4.70. How many of each coin does he have?

Cameron has six times as many nickels as dimes and three times as many pennies as dimes. Cameron has a total of one hundred pennies, nickels, and dimes. The total value of the coins is \$4.30. How many of each coin does he have?

Name: \_\_\_\_\_

$$6 \overline{) 24}$$

Divide and write remainder.

$$26 + 13 + 69 =$$

$$\begin{array}{r} 7,070,958 \\ - 757,139 \\ \hline \end{array}$$

$$50 \overline{) 2571}$$

Divide and write remainder.

$$\begin{array}{r} 334 \\ 46 \\ + 64 \\ \hline \end{array}$$

Subtract 579 from 2,910.

$$4 \overline{) 51}$$

Divide and write remainder.

$$\begin{array}{r} 3,719 \\ 53,239 \\ 15,481 \\ + 84,046 \\ \hline \end{array}$$

$$2 \overline{) 570}$$

Divide and write remainder.

$$\begin{array}{r} 915 \\ - 24 \\ \hline \end{array}$$

$$\begin{array}{r} 3,971 \\ - 503 \\ \hline \end{array}$$

$$\begin{array}{r} 436 \\ + 88 \\ \hline \end{array}$$

Name: \_\_\_\_\_

$$\begin{array}{r} 7.6 \\ - 4.34 \\ \hline \end{array}$$

Write each as a decimal.

$$8\frac{5}{10} =$$

$$17\frac{24}{100} =$$

$$4\frac{70}{100} =$$

$$11\frac{9}{10} =$$

$$13\frac{48}{100} =$$

$$15\frac{11}{100} =$$

Rewrite as a vertical equation and solve.  
 $6.385 - 1.81 =$

Write the decimal in words.  
 11.09

Convert to a fraction or mixed number and simplify.

$$8.596 =$$

$$25.069 =$$

$$63.0078 =$$

$$6.00029 =$$

$$65.016 =$$

$$79.0007 =$$

$$\begin{array}{r} 7.99 \\ - 5.13 \\ \hline \end{array}$$

$$455 \overline{) 40.95}$$

Change  $\frac{13}{25}$  to a decimal.

$$10 \overline{) 0.12}$$

Name: \_\_\_\_\_

One kilogram is equal to about 2.2 pounds. If a mail truck can carry 1,875 pounds of mail, how many kilograms is that? Round your answer to the nearest whole number.

Adam spent \$2.25 on a birthday card, \$4.52 on some chocolate and \$18.59 on a present. How much did he spend in all?

You are offered one of two "black boxes" that can increase or decrease the length of any object. One box operates in multiples of two and the other operates in multiples of eight. Which would be the better choice? Explain.

Ms. Floop was planning her garden plot. She had 20 feet of fencing to use, which would be needed to keep deer and rabbits out. What are the possible length and width combinations she could choose for her garden?

Adam searched the DVD case to see when the movie was made. There! He found it. It was made in MCMXC. What is that date in Arabic numerals?

Rosa had a bag of books she bought at the local library book sale. She paid \$6 for the bag of books, and there were 21 books in the bag. She calculated the cost per book by doing the operation  $6 \div 21$ . Would this give the correct answer? Explain.

$$7 + 12 \times 12 + 12$$

$$|-10| - z = 16$$

$$z =$$

If  $a = -9$  and  $v = 38$  then what is the value of  $m$ ?

$$11a + 11v - 3v = m$$

Name: \_\_\_\_\_

If 10 apples at the Bigtown Grocery cost \$2.60, how much would 8 apples cost if they could be purchased for the same per apple price?

Eric made copies of 4 of Ms. Bradstreet's poems. He wanted to put them up on the wall in a row. If their order was not important, how many different combinations of poems are possible?

As of 1997, Hoo Sateow of Chang Mai, Thailand, had the world's longest hair. At that time his hair was 203 inches long. Write the length of his hair in feet and inches.

Erin erected a fence that covered an area in the shape of a trapezium. The sides were all some multiple of a given unit ( $z$ ). If the side lengths were  $z$ ,  $1.6z$ ,  $2.5z$  and  $3z$ , how long was the fence if  $z$  was equal to 12 feet?

Jacob reads very fast. Sometimes he isn't sure what he has read, he reads so fast. He can read 5.7 pages in 0.15 hours. How many pages can he read in 2 hours?

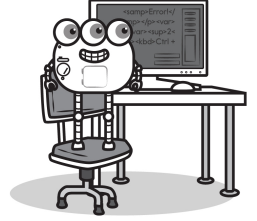
B, G, \_\_\_\_\_, Q, V

$$(10 + 2) \times 8$$

26, 39, \_\_\_\_\_, 65, 78, 91,  
104, 117, 130

Name: \_\_\_\_\_

Robot was given a math problem to solve.



All of M. Neusome's books were published in volumes exactly 5 inches wide and 8 inches high. How many of his volumes could be put in a square that is 55 inches wide and 48 inches high?

Robot wrote this program in Python to solve it.

```
# assign dimensions to variables
book_width = 5
book_height = 8
square_width = 55
square_height = 48

# calculate number of books that can be placed horizontally and vertically
num_books_width = square_width // book_width
num_books_height = square_height // book_height

# calculate the total number of books
total_books = num_books_width * num_books_height

print(total_books)
```

Robot's program will print the answer to the math problem.  
What will the program print out?



### Quick Hints

For //, you divide, round DOWN to the nearest integer, and drop any remainder.  
For \* you multiply the two numbers.

### Hint

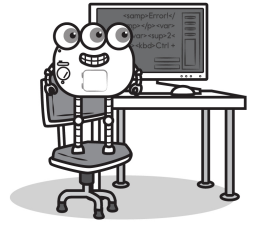
To divide in Python / is used. `print(5 / 2)` would print: 2.5

// is called floor division in Python. When // is used, you also divide, but the quotient is rounded down to the nearest integer, and the remainder is dropped.  
`print(5 // 2)` would print: 2

Name: \_\_\_\_\_

Robot was given a math problem to solve.

The sign on the rusty brown truck said, "For Sale. \$279." Peter counted his money. He only had \$194.65. How much more money does he need to buy the truck?



Robot wrote this program in Python to solve it.

```
truck_price = 279
peter_money = 194.65

money_needed = truck_price - peter_money
print(money_needed)
```

Robot's program will print the answer to the math problem.  
What will the program print out? Fill in the blanks.

\_\_\_\_ . \_\_\_\_



### Hints and Questions

After Robot's program is done, the variable `truck_price` will have a value in it.  
What value does it have?

In the program, "`truck_price`" is called a variable.

It is used to store a value. Name two other variables used in the program.

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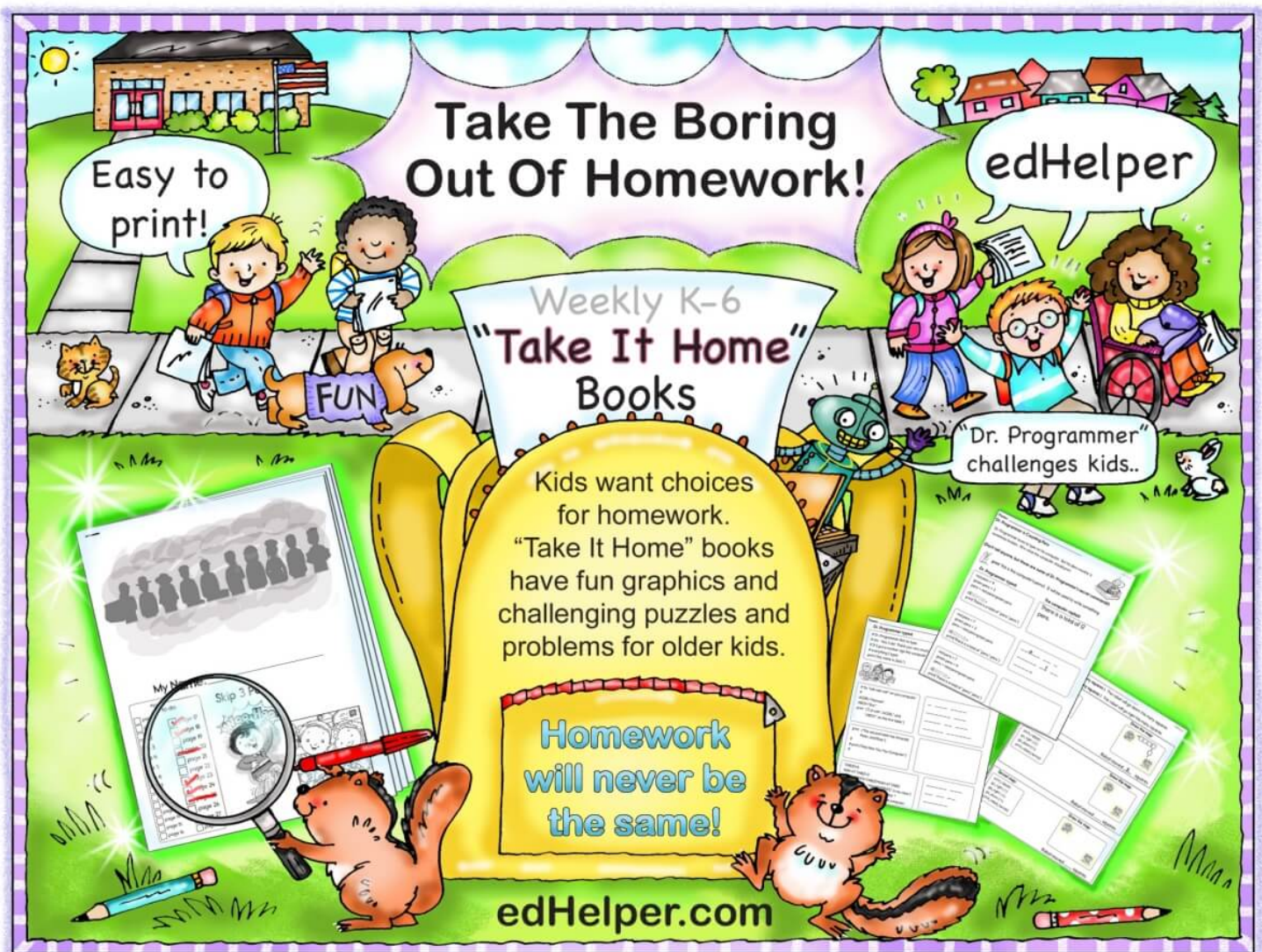


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Name: \_\_\_\_\_

Jessica had a fun homework assignment. She had to write word problems. Pretend you are her teacher. What would you write as suggestions for these?

a. Eric walked to school at an average speed of 23 steps a minute. Jack walked to school at 25 steps a minute. Who got to school first?

b. I drew a triangle. One side is 5 centimeters long. My friend drew a rectangle. One side of my friend's rectangle is 7 centimeters long. Whose shape has the greater area?

Amy created a chart of whole numbers starting from 65 to 265. She drew a rectangle around each number. What is the 14th even number on her chart?

How many even numbers are on her chart?

Amanda stopped at the tea store in the mall. They offer 9 different flavors of tea and 3 toppings that can be put into the tea. If Amanda were to pick 1 flavor of tea and 2 different toppings for the tea, how many different drinks could she order?

Rosa is picking winning numbers for a game she is making. The first winning number is 2. She then doubles 2, and that is another winning number. She keeps doubling the number till she has five winning numbers.

What is the first winning number that is greater than 0?

Name: \_\_\_\_\_

It has been an intense softball season. Sarah, Anna, and Pam are friends, but they all are on different teams in the league. Sarah's team has won 8 games and lost 7 games. Anna's team has won 10 games and lost 5 games. Pam's team has won 11 games and lost 4 games.

Which team has the best record?

Megan painted her room. It took her 11.6 hours to finish. Would you believe that she doesn't like the color? She wants to change it, but she doesn't want to work 11.6 hours by herself. She got five of her friends to help. Let's assume all six of them work at the same speed. If you had to guess, how long do you think it would take them to paint the room together? (Hint: The number of people hours should not change!)

Foot	5.5	6	6.5	7	7.5	8
Power	31	34	37	40	43	46

Emily created a game called FastRun. This game asks for your foot size and then tells you how much power your player will have. Emily's game uses an equation that converts foot size to power value. What could that equation be? Use  $F$  to represent foot size and  $S$  to represent power.

Hint: Trying taking  $F$ , multiplying by some number, and then subtracting a number to make an equation.

Jason was picked to write the morning math challenge problem. He says he is thinking of two whole numbers. If you add the two numbers, the sum is 75. If you multiply the two numbers, the product is 372. Is this possible? Give reasons for your answer.

Name \_\_\_\_\_



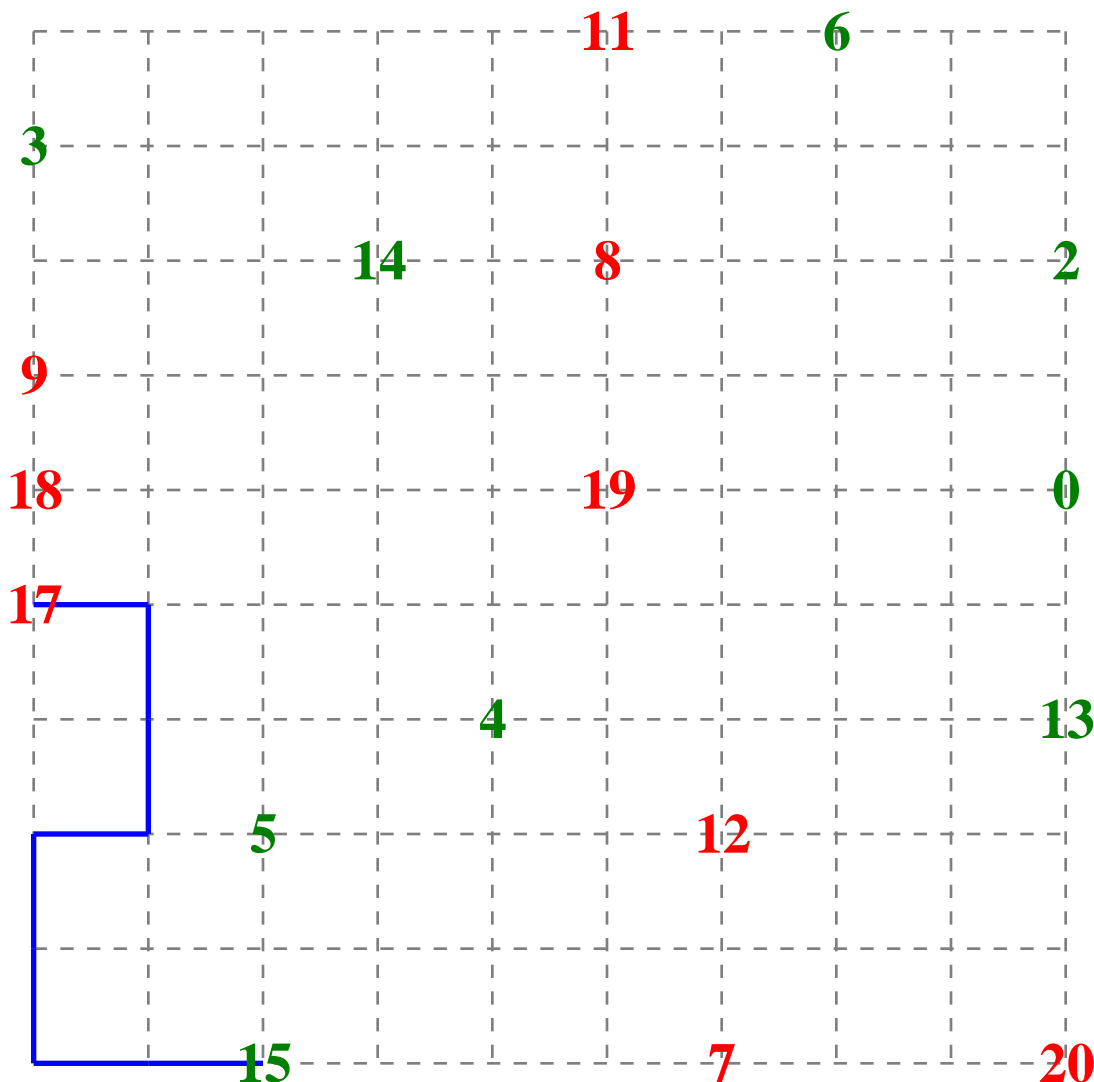
Date \_\_\_\_\_

# Greater and Less Than Number Kissing

Start at a green number and draw a line to any red number that is greater than the green number.

Draw a line that connects one number to one other number to kiss. Draw your lines over the trace lines. No lines may cross. Once you draw a line to a number, that number cannot be used again.

One complete line has already been drawn for you.



Name: \_\_\_\_\_

Jason has a total of seventeen dimes and quarters. The total value of the coins is \$3.20. How many of each coin does he have?

Sydney invested some of her \$1,690 at 7% and the rest at 4%. The annual simple interest from the 7% investment exceeds that from the other investment by \$13.80. How much money was invested at 4%?

A small town has averaged 1.7 inches of rain per month from January to March. What must be the average monthly rainfall from April to December so that the average rainfall for the entire year will be approximately 1.4 inches per month?

A large pipe and a smaller pipe are connected to a tank. The large pipe can empty the tank in five minutes. The small pipe can empty the tank in fifteen minutes. If both pipes are used at the same time, how long will it take to empty the tank?

Justin can paint a room in eleven hours. Daniel can paint the same room in twelve hours. How long does it take for both Justin and Daniel to paint the room if they are working together?

Two six-packs of soda and a bag of chips have a total of 3,516 calories. The bag of chips has nine servings. The number of calories in one can of soda is one hundred four calories more than the number of calories in one serving of chips. How many calories are in one can of soda?

Name: \_\_\_\_\_

The sum of Kyle's age and Savannah's age is thirty-three. Savannah is five years older than Kyle. How old is Kyle?

The sum of three consecutive integers is 171. What is the first number?

Isaac has a total of forty-three pennies and dimes. If Isaac had four more dimes, the total value of the coins would be \$2.81. How much money does he have?

Benjamin wants to have simple interest income of \$4,873.50 per year. If he found a bank that pays 8.55% simple interest per year, how much money will Benjamin need to deposit to meet his interest goal?

Courtney has nickels, dimes, and quarters. She has a total of \$22.75. There are two times as many dimes as nickels. There are six times as many quarters as nickels. How many of each coin does she have?

The football team spent \$8,800, which was ten percent more than they had budgeted. How much did the team budget to spend?

Name: \_\_\_\_\_

Solve for the unknown value. Hint: It is a positive whole number.

$$45 + r = 76 \quad r = \underline{\hspace{2cm}}$$

$$z + 57 = 112 \quad z = \underline{\hspace{2cm}}$$

$$11z = 77 \quad z = \underline{\hspace{2cm}}$$

$$8y = 56 \quad y = \underline{\hspace{2cm}}$$

$$49 + g = 79 \quad g = \underline{\hspace{2cm}}$$

Give two answers for x in each equation.

$$|-7 + x| = 5$$

$$|11 - x| = 1$$

Name: \_\_\_\_\_

Rewrite this mixed number as an improper fraction.

$$4 \frac{5}{8}$$

The sum of two numbers is  $40 \frac{1}{3}$ .

If you take the first number and subtract it by the second, the difference is 27.

What are the two numbers?

Name: \_\_\_\_\_

Three-sixths of a number equals 90. What is the number?

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

233 exceeds four times a number by 65. What is the number?

Eleven less than three-fourths of a number equals 16. What is the number?

If five is added nineteen times to a number, the result is 189. What is the number?

Nineteen exceeds one-twelfth of a number by 12. What is the number?

Name: \_\_\_\_\_

Two-thirds of a number equals 580. What is the number?

Fifty-nine more than a number is eighty-three. What is the number?

5,000 and 500,000 added to a number is 1,107,212. What is the number?

A number minus 33 is fifteen. What is the number?

Six times a number is  $32\frac{2}{5}$ . What is the number?

Ten times a number, decreased by nine, equals fifty-one. What is the number?

Name: \_\_\_\_\_

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

$-8.6 \underline{\hspace{1cm}} 8.7$

$-8.60 \underline{\hspace{1cm}} -8.6$

$-8.3 \underline{\hspace{1cm}} -8.36$

$-26 - (10) =$

$-(20) - (-3) =$

$26 - (-3) =$

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

$-3.6 \underline{\hspace{1cm}} 3.68$

$-9.5 \underline{\hspace{1cm}} -9.50$

$-7.5 \underline{\hspace{1cm}} 7.7$

$(10.9) - (4.8) - (-3.7) =$

$(-9.4)(7.2) =$

$(9.6)(-9.8) =$

$(-12)(9) =$

$(9)(-11) =$

$(5)(-5) =$

Simplify.

$-(4) \underline{\hspace{2cm}}$

$-(\frac{-4}{5}) \underline{\hspace{2cm}}$

$-(\frac{3}{5}) \underline{\hspace{2cm}}$

Write the reciprocal of each number.

$\frac{24}{15} \underline{\hspace{2cm}}$

$-7 \underline{\hspace{2cm}}$

$5 \underline{\hspace{2cm}}$

Simplify.

$-|\frac{4}{8}| \underline{\hspace{2cm}}$

$|-2| \underline{\hspace{2cm}}$

$|\frac{-1}{2}| \underline{\hspace{2cm}}$

$(-9.1)(-11.5) =$

$(-8.3)(-8.8) =$

$(6.2) - (3.6) - (1.1) =$

$(11)(-10) =$

$(-7)(9) =$

$(-5)(4) =$

Name: \_\_\_\_\_

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

$-2 \underline{\hspace{1cm}} -1$

$-5.3 \underline{\hspace{1cm}} 5.36$

$-5.8 \underline{\hspace{1cm}} -5.80$

$-18 - ( 5 ) =$

$20 - ( -12 ) =$

$-( -27 ) - ( 6 ) =$

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

$-2.8 \underline{\hspace{1cm}} 2.5$

$-1.40 \underline{\hspace{1cm}} -1.4$

$-8.72 \underline{\hspace{1cm}} 8.7$

Write these numbers in order from least to greatest:

$0, \frac{2}{3}, -4, 2, 2\frac{-1}{3}$

Simplify.

$-( \frac{4}{5} ) \underline{\hspace{2cm}}$

$-( -8 ) \underline{\hspace{2cm}}$

$-( \frac{-3}{6} ) \underline{\hspace{2cm}}$

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

$-4.67 \underline{\hspace{1cm}} -4.6$

$-4 \underline{\hspace{1cm}} -1$

$8.60 \underline{\hspace{1cm}} -8.6$

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

$9.7 \underline{\hspace{1cm}} -9.70$

$-1.52 \underline{\hspace{1cm}} 1.5$

$-5.7 \underline{\hspace{1cm}} 5.6$

$(-11.8) - (1.6) - (-2.2) =$

$-28 - ( 10 ) =$

$-( 23 ) - ( -5 ) =$

$-22 - ( 6 ) =$

$( -6.6 ) ( -7.4 ) =$

$( -9.8 ) ( 5.2 ) =$

$( 9 ) ( -6 ) =$

$( -8 ) ( 5 ) =$

$( -12 ) ( 10 ) =$

$(12.5) - (1.6) - (-1.8) =$

**Name:** \_\_\_\_\_

The difference between two numbers is 554. The average of these same two numbers is 540. What are the two numbers?

Holly likes to make her own board games with special dice. In her latest creation, each die has 8, 11, 14, 17, 20, and 23. If you have to roll two of these dice for each move, what is the most likely outcome for your first move?

At the mall, Jessica bought a shirt that cost \$23.80 before tax. After adding sales tax, she had to pay \$25.47. What is the sales tax rate as a percent?

The sum of three consecutive odd numbers is 1,459 less than 1,900. What are the numbers?

Name: \_\_\_\_\_

Words can be to the RIGHT, DOWN, LEFT, or UP. Every letter is used ONCE.

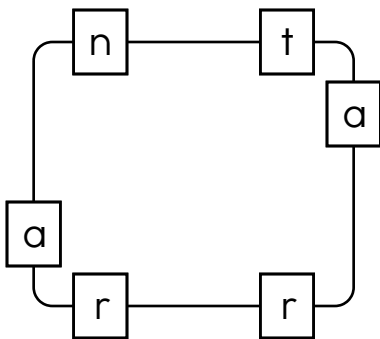
Hint: When to the LEFT or UP the word is backwards.

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

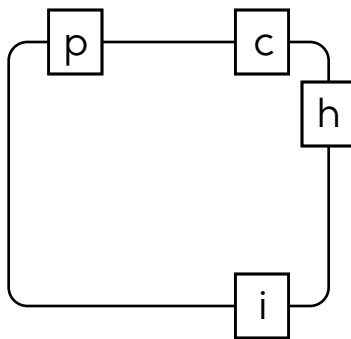
Write the words found.

SHAME	COINCIDE	BAD
SOPORIFICS		

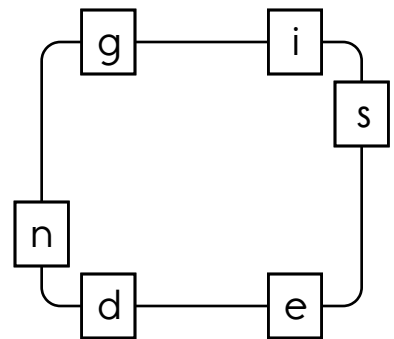
Write the hidden word. Start at one letter and then move either left or right. Continue in same direction.



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

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:  $8\frac{2}{5}$ ,  $\frac{6}{7}$ , or  $9\frac{7}{9}$ .

The other three numbers have to all be DIFFERENT and must be from these:  $2\frac{4}{5}$ ,  $1\frac{3}{5}$ ,  $3\frac{1}{5}$ , or  $5\frac{4}{5}$ .

	$\frac{6}{7}$		$9\frac{7}{9}$		$9\frac{7}{9}$		$5\frac{4}{5}$	
$3\frac{1}{5}$	$8\frac{16}{35}$	$1\frac{3}{5}$	$17\frac{17}{45}$	$2\frac{4}{5}$		$1\frac{3}{5}$	$11\frac{16}{35}$	$\frac{6}{7}$
	$2\frac{4}{5}$		$3\frac{1}{5}$		$3\frac{1}{5}$		$3\frac{1}{5}$	
$5\frac{4}{5}$	$11\frac{2}{35}$	$1\frac{3}{5}$	16	$2\frac{4}{5}$	$20\frac{1}{5}$	$5\frac{4}{5}$	$12\frac{23}{35}$	$\frac{6}{7}$
	$\frac{6}{7}$		$8\frac{2}{5}$		$8\frac{2}{5}$		$2\frac{4}{5}$	
$3\frac{1}{5}$	$12\frac{23}{35}$	$5\frac{4}{5}$	$20\frac{1}{5}$	$2\frac{4}{5}$	$18\frac{3}{5}$	$5\frac{4}{5}$	$20\frac{1}{5}$	$3\frac{1}{5}$
	$2\frac{4}{5}$		$3\frac{1}{5}$		$1\frac{3}{5}$		$8\frac{2}{5}$	
$5\frac{4}{5}$	$11\frac{2}{35}$	$1\frac{3}{5}$	$17\frac{17}{45}$	$2\frac{4}{5}$	$17\frac{17}{45}$	$3\frac{1}{5}$	16	$2\frac{4}{5}$
	$\frac{6}{7}$		$9\frac{7}{9}$		$9\frac{7}{9}$		$1\frac{3}{5}$	
$1\frac{3}{5}$	$8\frac{16}{35}$	$3\frac{1}{5}$	$17\frac{17}{45}$	$1\frac{3}{5}$		$5\frac{4}{5}$		$3\frac{1}{5}$
	$2\frac{4}{5}$		$2\frac{4}{5}$		$3\frac{1}{5}$		$8\frac{2}{5}$	

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:  $4\frac{1}{3}$ ,  $\frac{2}{5}$ , or  $8\frac{1}{9}$ .

The other three numbers have to all be DIFFERENT and must be from these:  $9\frac{2}{3}$ ,  $5\frac{1}{3}$ ,  $2\frac{2}{3}$ , or  $7\frac{1}{3}$ .







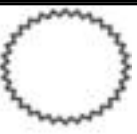






	$9\frac{2}{3}$		$5\frac{1}{3}$		$9\frac{2}{3}$		$5\frac{1}{3}$	
$4\frac{1}{3}$	22	$2\frac{2}{3}$	$25\frac{7}{9}$	$8\frac{1}{9}$	$27\frac{7}{9}$	$7\frac{1}{3}$	$26\frac{2}{3}$	$4\frac{1}{3}$
	$5\frac{1}{3}$		$9\frac{2}{3}$		$2\frac{2}{3}$		$9\frac{2}{3}$	
$7\frac{1}{3}$	$19\frac{2}{3}$	$4\frac{1}{3}$	$26\frac{2}{3}$	$5\frac{1}{3}$	$23\frac{4}{9}$	$8\frac{1}{9}$	$27\frac{7}{9}$	$2\frac{2}{3}$
	$2\frac{2}{3}$		$7\frac{1}{3}$		$7\frac{1}{3}$		$7\frac{1}{3}$	
$5\frac{1}{3}$	$18\frac{1}{15}$	$\frac{2}{5}$	$20\frac{1}{15}$	$2\frac{2}{3}$	$20\frac{1}{15}$	$\frac{2}{5}$	$22\frac{11}{15}$	$9\frac{2}{3}$
	$9\frac{2}{3}$		$9\frac{2}{3}$		$9\frac{2}{3}$		$5\frac{1}{3}$	
$2\frac{2}{3}$	24	$4\frac{1}{3}$	22	$5\frac{1}{3}$	$25\frac{7}{9}$	$8\frac{1}{9}$		$9\frac{2}{3}$
	$7\frac{1}{3}$		$2\frac{2}{3}$		$2\frac{2}{3}$		$2\frac{2}{3}$	
$5\frac{1}{3}$	$26\frac{2}{3}$	$9\frac{2}{3}$	$18\frac{1}{15}$	$\frac{2}{5}$		$7\frac{1}{3}$		$\frac{2}{5}$
	$4\frac{1}{3}$		$5\frac{1}{3}$		$5\frac{1}{3}$		$9\frac{2}{3}$	

Name: \_\_\_\_\_

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

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

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

Name: \_\_\_\_\_

### Sudoku Sums of 15

Each row, column, and box must have the numbers 1 through 9.  
 Hint: Look for sudoku sums. The sum of the two boxes inside of the dashed lines is 15.

Here is an example of a sudoku sum of 15: 

10	5
----	---

			6					
			5				9	3
2				4		8		
		2			5	6		7
		9				5		
5	3		8		7			
							7	
3	7		2	8	4			
8			1				5	4

$24 \div 3 - 5$

$12t - 19.3 = 93.5$   
 $t =$

If  $p = 6$  and  $n = -5$  then  
 what is  $p^2 - n^2$ ?

Name: \_\_\_\_\_

Each row, column, and box must have the numbers 1 through 9.

			6	3		4		
					7	9		1
5					6	3		4
				2	9		8	
	9			1				2
			8					
		2		4				7
4	5		3					8

Convert to a fraction or mixed number and simplify.

$$0.6 =$$

$$7.00014 =$$

$$0.0092 =$$

$$6.02 =$$

$$27.1 =$$

$$\begin{array}{r} 67.64 \\ \times 9.7 \\ \hline \end{array}$$

Change to a percent.

$$\frac{3}{100}$$



Name: \_\_\_\_\_

Ready for a challenge? See how long this takes.

My starting time: \_\_\_\_\_ : \_\_\_\_\_ and \_\_\_\_\_ seconds.

My ending time: \_\_\_\_\_ : \_\_\_\_\_ and \_\_\_\_\_ seconds.

Rewrite  $\frac{2}{5}$  as a decimal.

Rewrite  $\frac{99}{100}$  as a decimal.

$(0.4)(0.13)$

$6 \times 48 \div 6 - 36 \div 12 =$

$\$94 - p = \$24$   
What is the value of p?

$y = x + 12$   
 $y = 18$   
What is the value of x?

What is the greatest common factor of the numbers 70 and 98?

18, 8, 26, 12, \_\_\_\_\_, 16, 42,  
20, 50, 24, 58, 28, 66

$4 \times 4 = x^2$   
What is the value of x?

$8 - 6 + (10 + 11) - 8$

What is the remainder of 99 divided by 18?

Circle the percentage that is closest to 21 out of 70:  
26%  
5%  
91%  
68%

Name: \_\_\_\_\_

34 is what percent of 170?

Change to decimals.

20% = \_\_\_\_\_

56% = \_\_\_\_\_

8% = \_\_\_\_\_

24% = \_\_\_\_\_

Change  $\frac{3}{4}$  to a decimal.

Find 67% of 124.

Change to percents.

$$\frac{17}{100} =$$

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

$$\frac{83}{100} =$$

$$\frac{70}{100} =$$

$$\frac{9}{10} =$$

$$\frac{64}{100} =$$

Find 9% of 270.

Change 24% to a decimal and a fraction expressed in its lowest terms.

Change  $\frac{9}{15}$  to a decimal.Change  $\frac{90}{100}$  to a percent.

Name: \_\_\_\_\_

$827.89 + 363.55 =$

- A) 1,191.44
- B) 1,411.19
- C) 1,077.601
- D) 1,914.410

40 x 700 is equivalent to which answer?

- A) 40 x 70,000
- B) 4,000 x 7,000
- C) 400 x 70
- D) 40,000 x 7,000

$563.2 - 45.28 =$

- A) 2,179.2
- B) 517.92
- C) 511.92
- D)  $9^2 \cdot 3$

$17.41 \div 100 =$

- A) 0.001741
- B) 0.1741
- C) 0.01741
- D)  $9^2 \cdot 3$

$2690 + 2,468 =$

- A) 5,151
- B) 5,158
- C) 85,051
- D)  $9^2 \cdot 3$

How many cups in 11 quarts?

- A) 36 cups
- B) 264 cups
- C) 48 cups
- D) 44 cups



Name: \_\_\_\_\_

Ready for a challenge? See how long this takes.

My starting time: \_\_\_\_\_ : \_\_\_\_\_ and \_\_\_\_\_ seconds.

My ending time: \_\_\_\_\_ : \_\_\_\_\_ and \_\_\_\_\_ seconds.

$$|-6| - g = 3$$

$$g =$$

$$9 \times 9 \times 9 \times 9 \times 9 = Z^y$$

What is the value of Z  
and y?

$$15.8241 \times 10^2 =$$

100, 87, \_\_\_\_\_, 64, 54, 45,

37, 30, 24, 19, 15, 12, 10, 9

$$\frac{1}{81}, \frac{1}{9}, (1), (9), (81),$$

\_\_\_\_\_, (6,561),  
(59,049), (531,441)

A circle graph has five sections. Only four sections are labeled. The labels are 30%, 18%, 13%, and 14%. What should the missing section be?

What is the remainder of  
35 divided by 6?

In what quadrant would  
you find the point (-9, 19)?

$$11c - 28.8 = 48.2$$

$$c =$$

4, 4, 6, \_\_\_\_\_, 4, 4, 6, 6,

4, 4, 6, 6

Rewrite as an algebraic  
expression or equation.

Add 23 to the product of 9  
and c

Find the least common  
denominator for the  
fractions  $\frac{1}{30}$  and  $\frac{3}{45}$ .

Name: \_\_\_\_\_

			+		x	=	
+	?	B	A	36			
+	C	B	B	57			
+	C	C	B	64			
=							
	24	22	18				

Equations and Hints:

Each letter is a whole number.

Fill in the equations using the chart:

$B + B + C = 22$      $C + C \times \underline{\hspace{1cm}} = 64$      $\underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = 18$

$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = 57$

Additional hints:

$C = B + 1$      $A < 5$

Show Work:

Solve:

$? = \underline{\hspace{1cm}}$

Name: \_\_\_\_\_

		+		+		+		=	
	C		C		A		C		37
+	C		A		B		?		17
-									
	A		A		A		C		15
=									
	23		12		3		1		

Equations and Hints:

Each letter is a whole number.

Fill in the equations using the chart:

$C + C + A + C = 37$      $\underline{\hspace{1cm}} + B - A = 3$

$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} - \underline{\hspace{1cm}} = 23$      $\underline{\hspace{1cm}} + \underline{\hspace{1cm}} - \underline{\hspace{1cm}} = 12$

$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = 15$

Additional hints:

$C = A + 11$      $A < 3$

Solve:

$? = \underline{\hspace{1cm}}$

Name: \_\_\_\_\_

Nathan was entering into a database some numbers relating to recent astronomical observations he had made. His friend was calling out the numbers from his notebook while he entered them in the appropriate place. The friend called out three hundred seventy-three million. What series of digits did Nathan enter?

Jenna solved the following problem written in a math book:  $8 + 4 \times 5$ . She decided to check her answer using a calculator. She entered  $8 + 4$  and found the answer. Then she multiplied that by 5. Wait a minute. She got a different answer than expected! Her answer was 28, but her calculator answer was 60. She redid her work and got 28 again. She redid the calculator work and got 60 again. What is going on?

A geyser in Thermotown blasts a stream of hot water and steam into the air once every 45 minutes. It is now 5:27 p.m., and the geyser blew 12 minutes ago. What time will it be when it goes off again?

During the Iditarod trail run to deliver diphtheria serum to Nome, 20 mushers covered 800 miles in 144 hours. What was the average speed of the dog teams? Round your answer to the nearest hundredth.

Max has created a set of 4 matched pots on his potter's wheel and set them out for the judges to see. In how many different orders could he have lined up the pots for display?

Name: \_\_\_\_\_

Jacob purchased 3 boxes of candy at the local convenience store. Each box contained 24 pieces of candy. The boxes were \$4.68 each. How much was a single piece of candy?

As you know, it does not matter in which order you multiply two fractions together. However, it does matter in which order you divide fractions. Why?

The price of one piece of gum was \$0.08. A pound of gum cost \$10.88. How many pieces of gum are in a pound?

The Bigtown cheerleading squad has 11 members. In how many ways can they pick two people to hold the team banner at the beginning of the game?

The Jones family spent 66 hours on a camping trip. It took them 4 hours to get to the campsite and 6.2 hours to get home. Write an equation for how much time they spent at the campsite and solve it.

Jack had an overall average of 75. He received grades of 82, 79, 75, and 77 on his first four tests. What was his grade on the fifth test?

If  $m = -7$  and  $y = 29$  then what is the value of  $p$ ?  
 $6m + 15y - 2y = p$

$0.8 \times 0.4$

$(0.8)(0.15)$

Name: \_\_\_\_\_

Negative seven times a number is one hundred seventy-five. What is the number?

A number minus 11.69 is 10.45. What is the number?

The sum of a number and  $4\frac{2}{5}$  is  $9\frac{1}{15}$ . What is the number?

9,000 and 900,000 added to two-sixths of a number equals 936,944. What is the number?

One hundred seventy-one less than a number is negative one hundred one. What is the number?

2,922 and 7,967 added to the difference between 611 and half of a number is 11,361. What is the number?

Name: \_\_\_\_\_

One-tenth of a number, increased by 65 is 69. What is the number?

Seventeen exceeds one-fourth of a number by 14. What is the number?

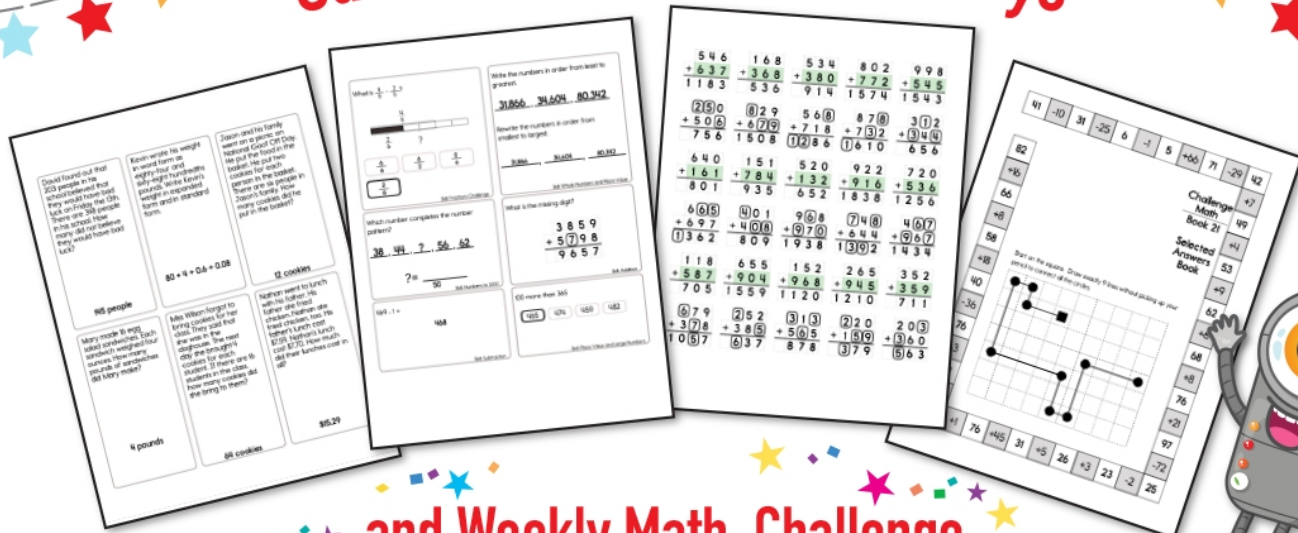
The sum of twenty-six and twenty-six is forty-seven more than a number. What is the number?

The sum of thirty-five and negative twenty-six is negative fourteen more than a number. What is the number?

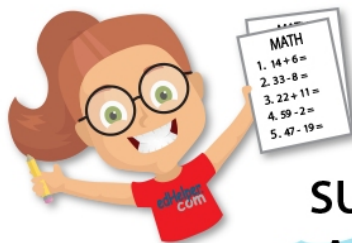
If twelve is added eighteen times to a number, the result is 278. What is the number?

Fifty-four less than a number is negative one hundred twenty-seven. What is the number?

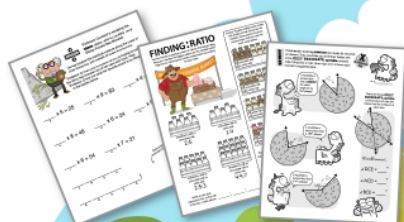
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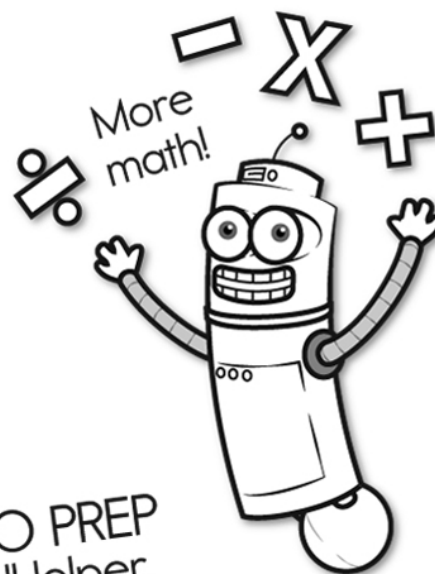
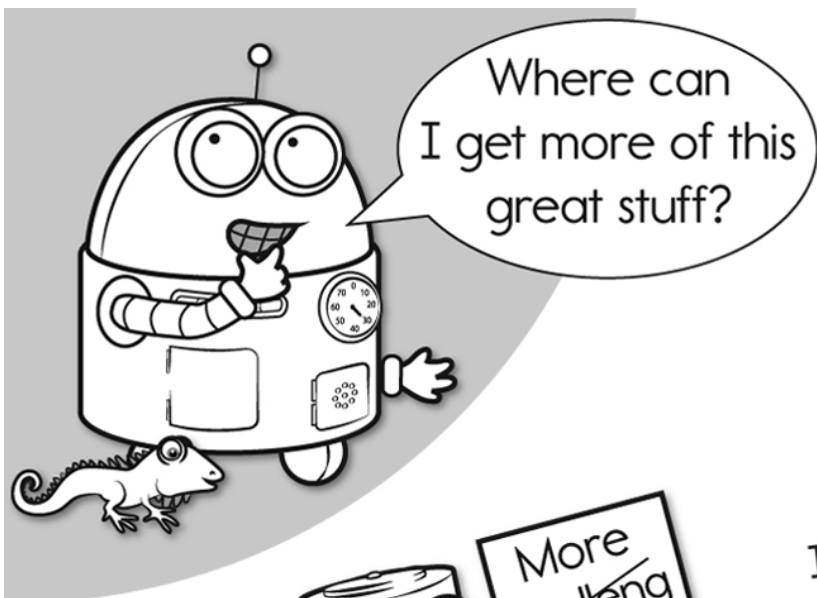
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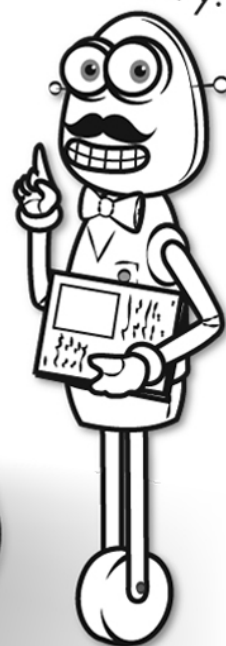


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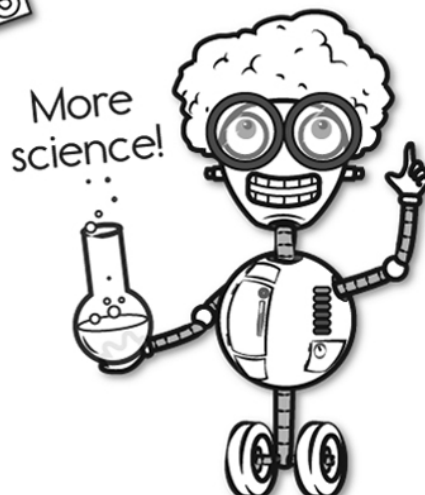
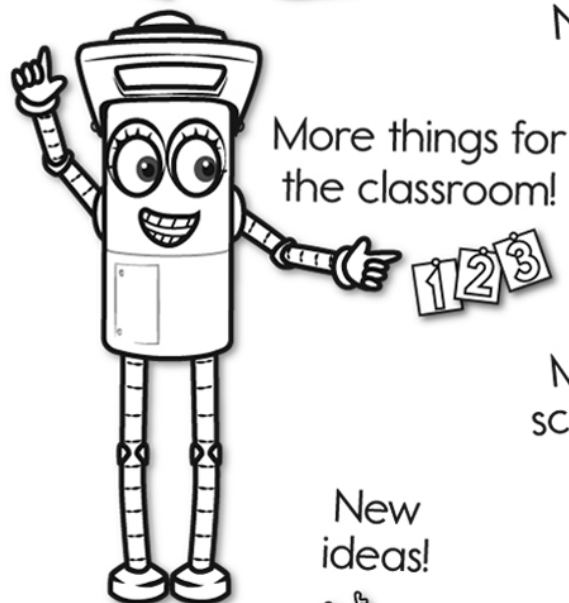
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 $< - >$

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