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.

2-	2-	3-	1	3-	
			15+		5
5+		1–	12+ 2		
2	1–		5		3
1–		1	1-		3- 4
	1-		2-		

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

6= 1	4= 2
6= 2	1 = 2
	5= 3
4 += 5	4= 3

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Make change. You can use \$20, \$10, \$5, \$1, 25¢, 10¢, 5¢, or 1¢.

Use the fewest k	oills and coins to	make \$14.37.		
	\$1]
(25¢)	\bigcirc)		

Use the fewest bills and coins to make \$44.53.

Use the fewest bills and coins to make \$25.44.

Use the fewest bills and coins to make \$24.42.



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Name:		
Seven less than two-fourths of a number equals 5. What is the number?	Four times a number, increased by sixty, equals one hundred twelve. What is the number?	Fifteen exceeds one-fifth of a number by 11. What is the number?
If twelve is added nineteen times to a number, the result is 291. What is the number?	The sum of twenty-one and forty-six is nineteen more than a number. What is the number?	Six times a number is 16. What is the number?

Name:		F
A number plus 3 is twenty-nine. What is the number?	Seventy-three more than 9 times a number is 145. What is the number?	Two-thirds of a number equals 20. What is the number?
Twenty-seven more than a number is one hundred one. What is the number?	60,000 and 1,200,000 added to a number is 1,781,600. What is the number?	504 exceeds eleven times a number by 75. What is the number?



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



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: 19.8, 16.9, or 13.4. The other three numbers have to all be DIFFERENT and must be from these: 2.1, 1.6, 3.1, 7.4, 6.3, or 9.6.



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: 18.1, 11.1, or 27.5. The other three numbers have to all be DIFFERENT and must be from these: 2.7, 6.9, 1.7, 7.3, 5.3, 9.6, or 3.2.



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January 2021 Workbook





Name:		edHelper
Ms. Floop completed a long calculation using her calculator and ended up with the following result: 78.422490242065. She knew that her initial data were not that precise, so she rounded to the nearest hundredth. What was the rounded result?	The atmosphere is 78% nitrogen, 21% oxygen, and the rest is other gases. What percent of the atmosphere is made up of other gases?	230 birds flew south on Wednesday, 203 flew south on Thursday and 365 on Friday. How many birds flew south during those three days?
0.7 x 0.6	t - 9 + t = 33 What is the value of t?	Circle the percentage that is closest to 31 out of 59: 96% 5% 30%
The PRIMINATOR was April's latest invention. It was designed to demonstrate how prime factors could be used to reduce fractions. Oh, and by the way, how are prime factors used to reduce fractions (explain)?	Eric said that $\frac{4}{5}$ was bigger than $\frac{1}{2}$. What are two ways he could prove his statement correct?	Melville's Meat Munchies sold 33 hot dogs Monday, 29 on Tuesday, 36 on Wednesday, 40 on Thursday, and 55 on Friday. Find the mean number of hot dogs sold that week.

1 + (12 x 7)

Kevin drew several Beatrix Potter characters, including Benjamin Bunny and Tom Kitten, for his biography of Ms. Potter. It took him more than 2 hours to write the text and $3 - \frac{1}{3}$ hours to draw the illustrations. If it took him $6 - \frac{1}{5}$ hours in all to complete the biography, how long did it take him to write the text? Adam walked to the corner store to buy some Gnarly-Qs. He was not in much of a hurry, so it took him 16 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.

Jessica erected a Eric counted the seeds in 15 apples and found fence that covered an area in the shape of a out that there was an average of 5.17 seeds trapezium. The sides were all some multiple per apple. At that rate, how many seeds would of a given unit (z). If there be in 30 apples? the side lengths were z, 1.5z, 2.5z and 3z, how long was the fence if z was equal to 5 feet?

If z = 7 and p = -20 then what is 6z - 10p + 3p = ?

 $2.9281 \times 10^4 =$

The Jets won 15 of their 20 games. What was their win:loss ratio?

Cody has a total of one hundred thirty-two nickels, dimes, and quarters. He has a total of \$20.90. He has two times as many nickels as dimes and one-third as many dimes as quarters. How many of each coin does he have?	Anr Her mar	ha's pennies and quarters total \$5.85. quarters and dimes total \$8.94. How by of each coin does she have?
Dylan's nickels and quarters total \$20.10. If the nickels were replaced by pennies then he would have \$18.62. How many of each coin does he have?	Rya time mor few eac	n has a total of \$18.95. He has three es more nickels than dimes, twenty-five re quarters than dimes, and forty-six er dimes than pennies. How many of th coin does he have?

Savannah has pennies, dimes, and quarters. She has a total of \$29.64. There are three times as many dimes as pennies. There are five times as many quarters as pennies. How many of each coin does she have?	Emma has a total of forty-three dimes and quarters. The quarters come to \$5.50 more than the dimes. How much money does she have?
Nicole has nineteen fewer quarters than pennies and fifteen more pennies than nickels. Nicole has a total of \$4.73. How many of each coin does she have?	Austin has fourteen fewer quarters than pennies. Austin has a total of \$1.96. How many of each coin does he have?





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Name:		currenper
Robert made a delicious apple spice cake for the Fall Festival. He cut each cake into 10 pieces. So far, he has sold $\frac{3}{5}$ of the cake. How many pieces has he sold?	Eric wrote an essay of 3.7 pages on the meaning of freedom. Peter wrote an essay on the same topic. Together, their essays were 8.1 pages. Write an equation to find out how many pages Peter wrote. Solve the equation.	Gavin 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 3.4 kilometers long?
In what quadrant would you find the point (6, -8)?	If j = 4 and b = -44 then what is 11j + 8b - 4b = ?	9m - 20.2 = 24.8 m =
Use the associative property of addition to regroup these numbers to make finding their sum easy to do mentally: 0.5, 12, 8.5, 2, 5, 4.5. What is the sum?	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.	The price of gasoline in Lowdown is now \$1.968 per gallon. To the nearest cent, how much would it cost to purchase 16 gallons?
Circle the percentage that is closest to 22 out of 70: 27% 5% 67%	Simplify. $\frac{4,800}{8,000} =$	Rewrite $\frac{18}{25}$ as a decimal.

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The RoundHouse Pizza Parlor in Bigtown had 6 toppings (besides cheese which was on every pizza) available for their pizzas. How many different pizzas could they make from these 6 toppings? They can use any combination of all or none of the toppings on a pizza.		Anne had 4 cards in her hand and two of them were aces. There were 3 people playing the game, and she assumed that no one else had an ace. Each player had the same number of cards, which had been dealt from a standard deck of 52. If she receives another card from the remaining deck, what is the probability that it will be an ace? (You may consider her assumption about the other players' cards to be correct.)		
Simplify. $\frac{273}{351} =$	What is the re 57 divided by	emainder of 14?	If h = -8 and w = 43 then what is 8h + 13w - 3w = ?	
Holly spent \$29 buying 5 old radios at the flea market. She paid \$5.20 for one radio and \$5.60 each for two more radios. If the other two radios cost the same, how much did she spend on each of them?	Jack had a piece of PVC pipe 6 ft 2 in long. He needed to cut it down to 5 ft 8 in. How much did he need to remove?		Amy is going to the beach next week. She went to the store to buy some snacks for the trip. Bags of the snacks she likes were on sale at 2 for \$3.28. She bought 4 bags. How much did she pay?	

Find the missing numbers. These both have the same rule. What is the rule? If If 1,1=1 4,4 = 16 2,2=4 5,5=25 3,3=9 6,6=36 4.4 = 16 7,7=49 Then Then 8,8=? 13,13 = ? Hint: The answer is NOT 25.

Complete each pattern. Write what the rule is.

48.4	44.8	41.2
37.6	34	
26.8	23.2	

The theater manager calculated the total revenue for the night to be \$6,324.25. A total of 828 movie tickets and popcorn were sold. If movie tickets cost \$8.75 each and popcorn costs \$2.40, how many movie tickets were sold?	Ashley's age is sixty-nine less than four times Timothy's age. In seven years, Ashley's age will be sixty-three less than three times Timothy's age. How old is Ashley?	The sum of two positive consecutive multiples of five integers is less than 14,622. What pair of numbers has the greatest sum?
Jonathan sold 21 CDs at	It takes Christopher 1 hour	Three years ago, Brianna
\$11.75 each. For each CD sold, he made a profit of sixty-five cents. His cost has not changed, but he wants to make an average profit of \$2.71. How many CDs must he sell at \$19.98 each to earn an overall average profit of \$2.71 per CD?	and 10 minutes to cut the grass. Brian needs 2 hours and 6 minutes to cut the grass. If they work together, how long will it take them to cut the grass?	was one-third as old as she will be in twenty-one years. How old is Brianna?

Name: .

The EdHelper Supermarket is donating one percent of this month's sales to the local high school. If the high school hopes to raise \$270 this month, how much sales will the supermarket need to have in order to reach the goal? Brianna earns thirty-one percent on sales of pretzels and fourteen percent on sales of soda. This week, she earned \$90.63. Her sales of pretzels were \$108 more than her sales of soda. How much did Brianna earn by selling pretzels? Makayla left early in the morning for a long bike ride. She reached the half point of her ride about one hundred eighty minutes later. She calculated her speed was nine mph for the first half of the trip. If she rides the second half at a rate that is seven mph more, how much quicker will the second half be (in minutes)?

Batting average is the number of hits divided by the number of at bats. Jessica has a 0.258 batting average after two hundred seventy-five at bats. How many hits will Jessica need in her next one hundred twenty-five at bats to raise her batting average to 0.305? The sum of the digits of a four-digit number is 13. The hundreds digit is two more than the tens digit. The ones digit is six more than two times the tens digit. The thousands digit is five more than three times the tens digit. What is the number? Five times Devin's age is one hundred thirty-three more than twice Sydney's age. The sum of their ages is one hundred twelve less than four times twice Sydney's age. How old is Devin?

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

$$\frac{24}{??} = \frac{36}{72}$$

Show the steps to solve 4(47 - 7 - 16) ÷ 8 + 780 x 13

Parentheses

Exponents

Multiplication & Division (or Division & Multiplication!)

Addition & Subtraction (or Subtraction & Division!)

In each gr 7	oup, use 4 c 9	of the number 42	ers to make a 27	a proportion. 47	21	
7	4	3	28	49	21	

There are 2 prime numbers greater than 33 but less than 43. Name them.





Did you find that three are true? If not, look again!

Hint: If you see the same pieces on both sides, you might need to remove both pieces. You should only mark TRUE if you are absolutely sure it is correct!

(word root fract can mean break fracture, infraction	
--	--

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Express $\frac{1}{3}$ as a repeating decimal.

Round each number to the nearest thousand.

72,855,530.42569

541,074.124884

166,522,216.23

8,251,526.294677

Give two answers for x in each equation.

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.

9.6 9.4

-4.7 -4.5

I am a whole number. One of my factors is 6. One of my digits is 0. I am less than 40. What number am I?

I am a whole number. When rounded to the nearest ten, the answer is 90. The sum of my digits is 11. What number am I?

Name:		
8,000 and 500,000 added to a number is 829,731. What is the number?	Three-fifths of a number equals 45. What is the number?	A number minus 15 is fifty-eight. What is the number?
Two times a number, decreased by twenty, equals six. What is the number?	One more than a number is forty-four. What is the number?	Two-thirds of a number equals 412. What is the number?

Name:		
621 exceeds eight times a number by 69. What is the number?	Twenty-four exceeds one-twelfth of a number by 10. What is the number?	Three less than two-fourths of a number equals 5. What is the number?
If nine is added fifteen times to a number, the result is 221. What is the number?	Nine times a number is $_{33}\frac{3}{4}$. What is the number?	If a number is increased by 36, the result is 85. What is the number?







Name: _

Find 2 equations hidden in each box. Good luck!



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.





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Name:		edHelper
4)22082	8)744448	9)88936



5)29170

3)171192



word root son can mean sound dissonance, dissonant, ultrasonic

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: $6\frac{1}{2}$, $8\frac{5}{9}$, or $4\frac{1}{5}$. The other three numbers have to all be DIFFERENT and must be from these: $9\frac{1}{2}$, $5\frac{1}{2}$, $2\frac{1}{2}$,



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: $3\frac{1}{3}$, $5\frac{3}{4}$, or $1\frac{1}{2}$. The other three numbers have to all be DIFFERENT and must be from these: $9\frac{2}{3}$, $\frac{1}{3}$, $6\frac{2}{3}$, or



Make change. You can use \$20, \$10, \$5, \$1, 25¢, 10¢, 5¢, or 1¢.

Make \$56.15 usin	ng bills and coin	s.		
	\$20			

Show a different way to make \$56.15 using a different number of bills or coins.

Make \$35.57 using bills and coins.

Show a different way to make \$35.57 using a different number of bills or coins.

Ava rolls two dice. She adds the numbers on the two dice. What is the chance of this sum being six?	30 ÷ 3 =	50 - 11	500 -288
	and the second		

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Get a fidget spinner! Spin it.	I need	ed to spin time(s) to finish.
In what quadrant would you find the point (-3, 20)?	If g = 9 and p = -41 then what is 10g + 11p - 4p = ?	Circle the greatest amount: 32% 0.31 <u>6</u> 25
Rewrite as an algebraic expression or equation. Seven more than z tripled is fifty-seven.	The unknown value x is a multiple of 4, is greater than 78, and it is divisible by 14. What can be the lowest possible value of x?	Rewrite as an algebraic expression or equation. Add 17 to the product of x and 7
230, 194, 161, 131, 104, , 59, 41, 26, 14, 5	7 x 40 ÷ 5 - 27 ÷ 9 =	1 x 15 ÷ 5
49, <u> </u> , 65, 73, 81, 89, 97	403 ÷ 10	Each side of a regular pentagon is 72.8 centimeters. What is the perimeter?



Name:	
7 x 6 = A) 42 B) 144 C) 41 D) 2^1^3	What does the stand for in the following equation? 3 = 3 A) 3 B) 9 C) 6
8.6 x 6.9 = A) 562.54 B) 59.24 C) 19.34 D) 59.34	81559 - 28,037 = A) 53,562 B) 53,522 C) 436,280 D) 2^1^3
The diameter of a circle painted by Greg is 2 feet. What is the length of its radius? A) 16.5 feet B) 1 feet C) 4 feet D) 24 feet	What should replace the to make the following sentence true? $6 \times 9 = 62 \ 8$ A) - B) x C) +



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Name:			
66 11 6	$) \begin{bmatrix} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $		
) 2 9) 2 6	$\left \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
THE CONTRACTOR OF THE CONTRACT	8 x 2 = 9 x 11 = 6 x 7 = 12 x 2 =	10 x 9 = 8 x 3 = 8 x 11 = 4 x 6 =	3 x 9 = 2 x 12 = 3 x 6 = 2 x 4 =
MAD MINUTES	89 x =445 x 5 = 60 x 2 =134 57 x = 114	x 2 = 90 x 8 =232 72 x =576 x 9 =180	54 x =378 40 x =240 58 x =174 x 9 =729



Name: _







Solve: ? =

ACROSS

- 1. **7 + 14**
- 3. One-fourth of 7-Down
- 5. One more than 20-Down
- 6. One-fifth of 19-Down
- 8. Six times 2-Down
- 10. One more than 21-Across
- 14. 7-Down plus 4-Down
- 16.4+17
- 18. Three less than 14-Across
- 21. Eight more than 14-Down
- 22. 5 + 18
- 23. One-seventh of 16-Across
- 24. Seven times 3-Across

DOWN

- 2. Three less than 13-Down
- 4. 5 + 5 = 2 x ____
- 7. Nickels in seven dollars
- 9. One-seventh of 21-Across
- 11. Nine more than 3-Across
- 12. 6 + 13
- 13. Five less than 11-Down
- 14. Five times 13-Down
- 15. 4-Down plus 2-Down
- 17. 16-Across plus 21-Across
- 19. 14-Down plus 3-Across
- 20. 6-Across plus 2-Down
- 23. One-seventh of 1-Across





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

Draw the 4 pictures in the correct order:



Draw 3 of these 4 pictures.

The pictures to use are in the correct spot.

Name:			1
In golf, scores are often compared to a number called par, which is the score (number of times the ball must be hit to get it in every hole and complete the course) expected from a good player on a particular course. If Sara's score was 88, which was 8 over par, what was considered par for the course?		Ms. Floop wrote the numbers 19 and 23 on the board and asked the class to find the GCF. Some students began by listing the multiples, and others started prime factoring the numbers. Jenna shouted out the answer in a few seconds and was correct. She did not use either of the methods the other students were using. What was Jenna's correct answer and how did she do it?	
	5 x 8 - 4		Each side of a regular
$4 x 4 x 4 = x^{3}$			pentagon is 99.4 centimeters What is the
What is the value of x?			perimeter?
	In a weird	new card	The fish in tank 1 are
Mr. Bloop's SUV is $13 - \frac{1}{4}$	game, Mar	y scored	fed every 12 hours. The
feet long. If his garage is	the first rou	und. She	every 5 hours.
$14 \frac{2}{3}$ feet deep, how	scored two	times that	Assuming they are
much total room does he	second rou	rs auring the und. How	time on one day, how
have to spare in front and	many point	ts did she	many hours will it be
back of his SUV when he	both round	tal during Is toaether?	before they are again both fed at the same
parks it in the garage?			time?

March 31, 1973, in central and northern Georgia did \$5.18 billion worth of damage. The tornadoes of May 8 did \$370 million worth of damage in the Oklahoma City area. How much more damage did the Georgia tornadoes do?	to help him put 795 flyers into 50 equal piles for delivery. "It can't be done," said his friend. "Why not?" asked Adam. What was his friend's reply?	of rain in Littleville last year. What is the smallest denominator that could be used in converting the decimal amount of rain into an improper fraction?
$4 \times 4 \times 4 = 4^{\times}$	Simplify.	Simplify.
what is the value of x?	$\frac{72}{162} =$	$\frac{10}{40} =$
Amy was studying some peculiarities of the DNA sequence ATG. List the permutations of this sequence (changing the order of the letters A, T, and G).	The Great Ralconi performs approximately 17 magic shows per month for half the work-year and does 20 shows a month for the other half. He takes two months of vacation per	Erin ran the 100 meters in 13.89 seconds. Her archrival Jenna ran it in $\frac{39}{100}$ of a second less. What was Jenna's time?

Adam asked his friend

Name:

The tornadoes of

year. About how many shows a year does he

do?

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There were 31.8 inches

Name:	_	edHelper
If the average marshmallow weighs 0.12 ounces, how much will a bag of 52 marshmallows weigh? Don't forget to include 2.3 ounces for the weight of the bag.	Max was bored. He went outside to find something to do. His mother was planting flowers. Max offered to help her. They planted flowers from 2:40 p.m. until 5:00 p.m. They talked and had a good time together. How long did Max and his mother work together?	It was such pandemonium! There were books stacked everywhere in the new bookstore. Jack finally found the book he wanted at the bottom of the stack. He gave the clerk a 20-dollar bill. If the price of the book was \$15.93, how much change did he get?
Miss White made a popcorn	Mrs. Anderson made an	Jenna is making small gift
cake for a friend's birthday.	American flag in her sewing	bags of tea. Each bag holds
She used $\frac{5}{8}$ pound of	class. The flag had 13 stripes	$1\frac{1}{2}$ ounces of tea and sells
popcorn. She used $\frac{3}{4}$ of	that were each $2\frac{2}{5}$ inches	for \$3.25. She buys the tea
that amount in the cake.	wide. The long stripes were	for \$10.90 per pound. Her
She used the rest for	52 inches long (the same as	other supplies cost \$0.36
decorating. How many	the length of the flag). What	per bag. How much profit
ounces of popcorn did she	was the perimeter of the	(or loss) will she make per
use for decorating?	flag she made?	pound of tea?

Name:		ľ
Eighteen exceeds one-twelfth of a number by 13. What is the number?	Five times a number is 18 3/4. What is the number?	Ten more than a number is negative fifty-eight. What is the number?
The difference between 438 and half of a number is 287. What is the number?	The sum of twenty-nine and negative forty-six is negative thirty-one more than a number. What is the number?	The sum of a number and 2/5 is 1. What is the number?

Name:		currespon
A number multiplied by 10 is -126. What is the number?	102.94 less than 12 times a number is 59.06. What is the number?	If nine is added fifteen times to a number, the result is 200. What is the number?
5,000 and 9,000,000 added to a number is 9,673,597. What is the number?	One-sixth of a number, decreased by 10 is 4. What is the number?	2,337 and 8,391 added to the difference between 425 and half of a number is 10,977. What is the number?



