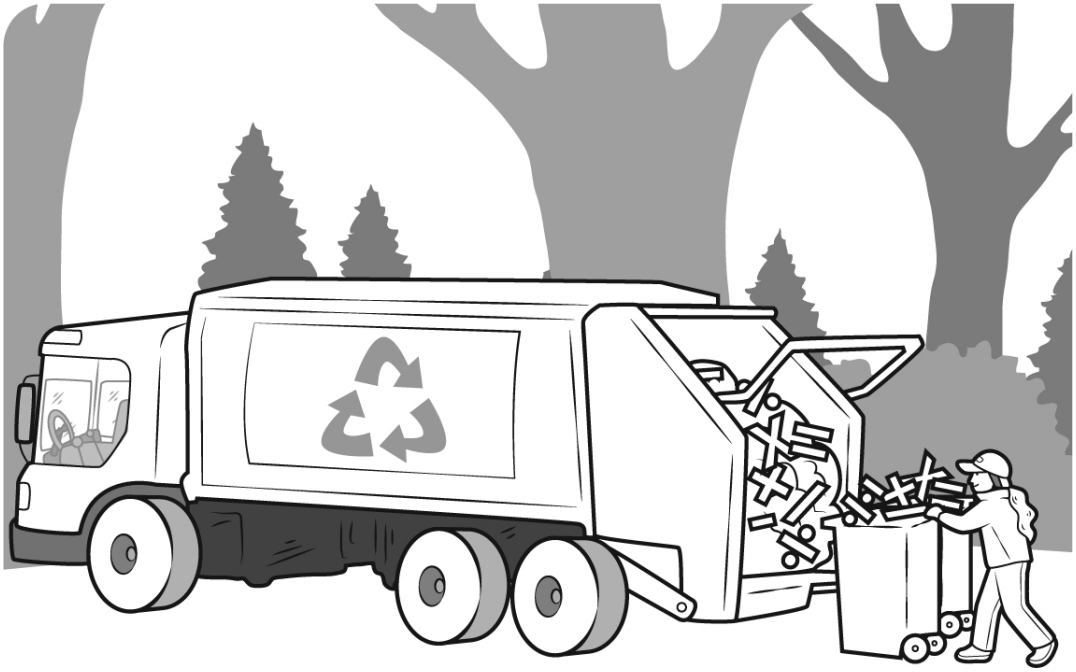
MONTHLY MATH CHALLENGE

Homework

April



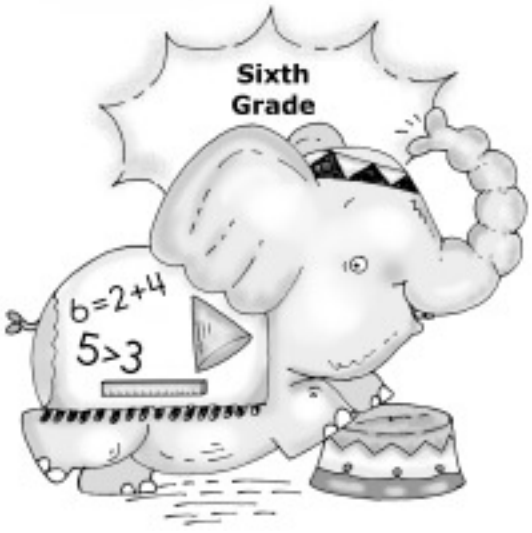
My Name: _____

Do all of these, but skip 2 pages:

- ☐ page 1
- ☐ page 2
- ☐ page 3
- ☐ page 4
- ☐ page 5
- ☐ page 6
- ☐ page 7
- ☐ page 8
- ☐ page 9
- ☐ page 10
- ☐ page 11
- ☐ page 12
- ☐ page 13
- ☐ page 14
- ☐ page 15
- ☐ page 16
- ☐ page 17
- ☐ page 18
- ☐ page 19
- ☐ page 20
- ☐ page 21
- ☐ page 22
- ☐ page 23
- ☐ page 24
- ☐ page 25

Find a helper.

He/she helped by checking my work.



Name: _____

SALLY'S GOOD FOOD RESTAURANT

Regular Burger	5.25	Cool Dude Meal	4.50
Super-Sized Burger	3.95	Mac and Cheese	6.75
Burger Jr.	2.50		
		Water	1.25
Chicken Nuggets	4.25	Juice	1.35
Crispy Chicken Sandwich	7.30	Lemonade	1.50
French Fries	2.25		
Onion Rings	1.75		

John and Billy went to Sally's Good Food Restaurant. They each ordered a regular hamburger. John got a side mac and cheese with juice. Billy wanted fries and the Cool Dude meal along with water. The food was so good, and they had such a great time that they didn't realize the waiter already left a bill.
"I'll pay," said John. He left exactly enough money for the food along with a 20% tip for the waiter.
How much money did he leave?

Show your work.

Name: _____

Jenny has been trying to get a summer job. Her brother said he could use help with cutting people's grass. He offered to pay her 30% (He'd keep 70%.) of lawns they cut.
"How much is that?" asked Jenny.
"Well, I cut about 3 or 4 lawns in a day. With your help maybe we could do 6, and I charge $20 per lawn."
She also went into town and put in an application to work at Charlie's Ice Cream Shop. The shop pays $6.50 an hour.
Jenny is not sure which job to take. Offer her some advice on what she should do. Think what you would do before giving advice.

Figure out the difference in pay between the two jobs. Would you ONLY consider pay to decide?

Name: _____

This number is so cool. The tenths place is twice its tens. The ones place is 3 less than its hundredths. The sum of its digits is 19. What's the cool number?

__ __ . __ __

Which number has more factors: 19 or 27?

Bob, the donut guy, is working on a new type of donut called the 1.3-ounce sugar mini donut. Each donut weighs precisely 1.3 ounces. About $\frac{7}{20}$ of the donut consists of milk, yeast, flour, and eggs. The rest of the donut is sugar. Yum!

How many ounces of sugar is needed for each donut?

Name: _____

Fairy tale author Hans Christian Andersen was born on April 2, 1805. He wrote 168 fairy tales for children. Andersen published The Princess and the Pea in 1835, 40 years before he died. What percent of his life had he lived when he published this famous fairy tale?

Show your work.

Name: _____

This fraction is equivalent to $\frac{1}{2}$. The sum of the digits in the denominator is 3. The sum of the digits in the numerator is 6. What is this fraction?

Amanda is 2 times as old as Emily. In 7 years, the sum of their ages will be 50. How old is Emily?

I am a 3-digit number with a 2 in the tens place. My ones digit is greater than my hundreds digit. Write any number that fits this.

Name: _____

38	$+\frac{1}{3}$				+5		+36	
		$-\frac{5}{11}$		$-8\frac{3}{11}$				+12
$-4\frac{2}{11}$		+32		$-\frac{1}{3}$		$+\frac{2}{3}$		-41
				$27\frac{4}{11}$				
-47				$-\frac{1}{3}$		$+\frac{1}{3}$		
	-6		+15				-29	$2\frac{25}{33}$

37	+54		$+\frac{1}{2}$		+2			
						+17		
	$-\frac{2}{3}$	$114\frac{1}{3}$	$+4\frac{1}{2}$		$-\frac{2}{3}$			
+26								
$139\frac{2}{3}$	-22		$+1\frac{1}{2}$	$119\frac{1}{6}$	+15		$-\frac{1}{3}$	$133\frac{5}{6}$

Name: _____

On April 2, 1513, Ponce de Leon landed at St. Augustine, FL, the oldest city in the continental U.S. On April 26, 1607, Jamestown, VA, was founded, making it the second oldest city in the continental U.S. There are 654 miles between the two cities.
If the average speed limit for 350 miles is 70 mph, and the average speed limit for the rest of the trip is 65 mph, how long will it take to drive from St. Augustine to Jamestown? Round your answer to the nearest tenth.

Show your work.

Name: _____

What is the greatest common factor of the numbers 56 and 126?

D, H, _____, P, T, X

What is the remainder of 108 divided by 19?

What is the value of g?

$5g + 16 - 4g = -7$

0.2×0.4

Rewrite $\frac{8}{25}$ as a decimal.

$\frac{2}{m} + \frac{1}{5} = \frac{13}{15}$

m =

Use >, <, or = to complete.

$\frac{3}{10}$ ___ 39%

$\frac{2}{3}$ ___ 35%

24% ___ $\frac{1}{11}$

$9 \times 9 = x^2$

What is the value of x?

$|-15| - d = 21$

d =

$0.9\ (0.2\ (0.9 \times 2)) =$

$11v - 18.5 = 62.9$

v =

$t - 8 + t = 36$

What is the value of t?

$0.7 \cdot 7 =$

$2 + (39 \div 3) - 35 \div 5 =$

Name: _____

Simplify.

$\frac{36}{48}$ =

11z - 11.1 = 87.9

z =

8 - 33 ÷ 11

(6 + 14) + 6 = 2(2 + 11)

$\frac{9}{12}$ x $\frac{3}{11}$

Circle the greatest amount:
28%
0.34
$\frac{9}{25}$

91, 113, 82, 100, 73, 87, _____, 74, 55, 61, 46, 48, 37, 35

$7 \times 7 = 7^x$

What is the value of x?

Rewrite as an algebraic expression or equation.

Add 22 to the product of s and 9

In what quadrant would you find the point (-11, 5)?

3 + 8 • 3 + 10

If n = 8 and t = -40 then what is 6n - 14t - 3t = ?

|-53| + [31| =

9 + 96 ÷ 8 - 12 ÷ 3 =

Rewrite $\frac{9}{20}$ as a decimal.

Name: _____

Puzzle:

				560
		9	9	4,536
				320
	9			2,205
490	1,440	1,008	2,520	X

Work Area:

				560
		9	9	4,536
				320
	9			2,205
490	1,440	1,008	2,520	X

The product for each column and row is given. Blanks use numbers 2 to 9 only.

= _____ = _____ = _____

= _____ = _____

Puzzle:

				2,592
				720
				2,016
				3,136
3,240	392	2,268	4,096	X

Work Area:

				2,592
				720
				2,016
				3,136
3,240	392	2,268	4,096	X

The product for each column and row is given. Blanks use numbers 2 to 9 only.

= _____ = _____ = _____

= _____ = _____ = _____

Name: _____

Mr. David has created a new machine that uses water, corn, bananas, and mashed potatoes and it can make curly popcorn.
Yummy!
He can make five and three-quarters cups of popcorn with his machine every thirty seconds.
He wants to try to make a hundred cups for a party. Assuming his machine will last (Don't worry, it won't!), how long do you think this will take?
Let's give him a two-minute break every twelve minutes.

Show your work.

Name: _____

In 2005, Hailu Negussie of Ethiopia won the Men's Open with a time of 2:11:45. Catherine Ndereba of Kenya won the Women's Open with a time of 2:25:13. How much faster was Negussie's time?

Sammy Shark bought three programs for the floor show for $24.6. If his brother Sal bought seven programs at the same price per program, what would the total cost be?

Kevin added the number of edges on a triangular prism to the number of vertices on a cube. What was the sum?

Name: _____

Robinson Crusoe spent a lot of time exploring his island. He walked 6.8, 5.6, 9.2, 5.4, 8.6, 9.5, and 5.2 kilometers during his first week. What was the average distance he walked each day? Round your answer to the nearest tenth.

At the Barbeque Day cookout at the Yellow Hill Community Center, $\frac{1}{4}$ of the people had chicken, $\frac{1}{3}$ had pork, and the rest had beef. What percent of the people had beef?

Jen is really into science. She invented a robotic bug that burps. Her brother loves it, so she wanted to burp her brother today. She checked her phone, and her brother is currently 1.6 miles away. After she set the coordinates on the phone the robotic bug left. She got a burp confirmation 145.6 seconds later when it reached her brother. How fast did this burping bee travel in miles per hour?

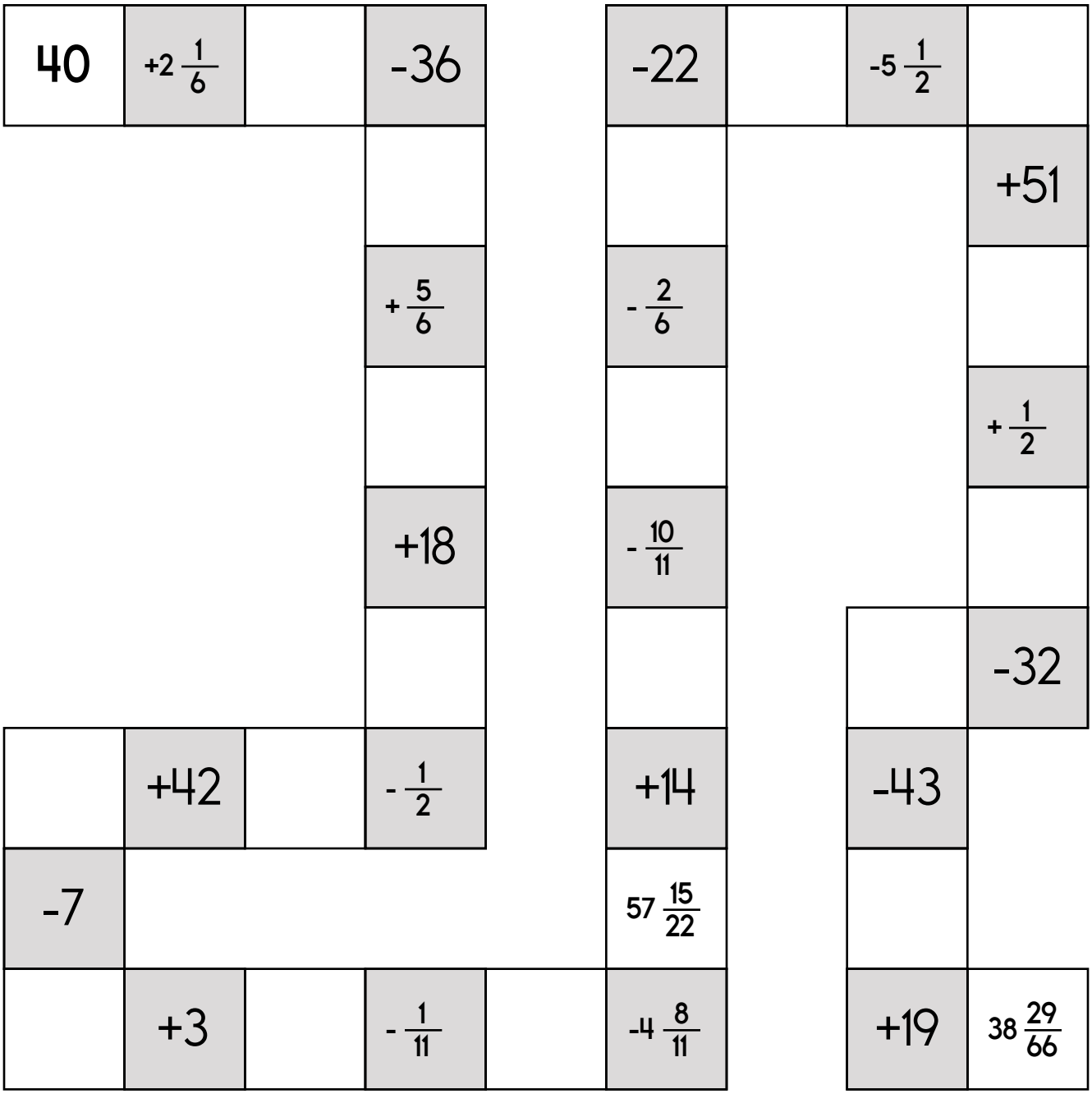
There are 2 prime numbers greater than 23 but less than 33. Name them.

Name: _____

Write your own math problem here.

Ask the person who helped you to try to solve your problem.

Name: _____



m + 32 = 42

What is the least common multiple of 8 and 4?

What is the greatest common factor of 8 and 14?

Name: _____

Sarah is playing "Penguin Parade" with her best friend. The spinner for the game has ten spaces. Five of the spaces have two penguins on them. The rest have one penguin on them. On Sarah's first spin, what is the chance the pointer will stop on a space with one penguin?

Kevin ate $\frac{4}{5}$ of his dessert at the Celebrate! Day party. Andy ate $\frac{1}{2}$ of his dessert. Which boy ate more of his dessert?

Max wants to have fun on National Splurge Day. He is going to the Fun Park. He wants to ride the Terror Train 24 times! The Terror Train ride lasts 2 minutes and 6 seconds. If he rides it 24 times, how many minutes will he spend on the Terror Train?

66 − 65	75 − 64	93 − 27	92 − 74	32 + 14	30 + 19

$6\overline{)48}$ $6\overline{)54}$

Fill in the missing fractions.

_____ , _____ , $\frac{3}{5}$, $\frac{4}{5}$

Do parallel lines intersect?

_____

$$\begin{array}{r} 11 \\ \times\ 10 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times\ 10 \\ \hline \end{array}$$

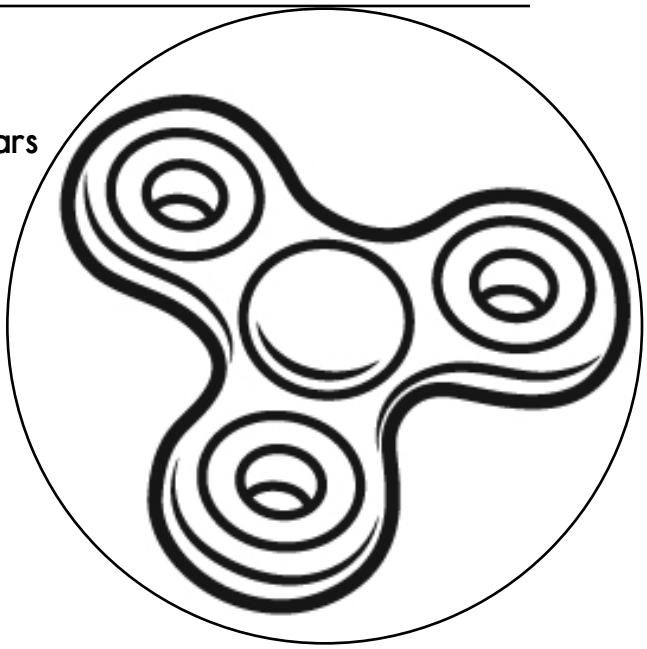
How many fourths are in 3?

_____

The factors of 12 are ___ ___ ___ 4 6 ___

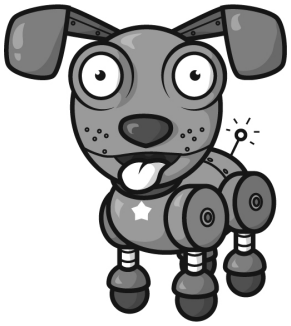
Name: _____

Directions:
Use the rule that
1 human year = 7 dog years
to fill in the blanks.



How many times
do you need to spin?

I needed to spin ____
time(s) to finish the page.



Spin fidget spinner. Quick!

I needed to spin _____ time(s) to finish.

Human Years: $11\frac{1}{12}$ Dog's Age: $77\frac{7}{12}$	Human Years: $16\frac{1}{12}$ Dog's Age: ____	Human Years: $9\frac{7}{12}$ Dog's Age: ____	Human Years: $7\frac{11}{12}$ Dog's Age: ____
Human Years: ____ Dog's Age: $128\frac{4}{12}$	Human Years: ____ Dog's Age: $21\frac{7}{12}$	Human Years: ____ Dog's Age: $62\frac{5}{12}$	Human Years: $14\frac{10}{12}$ Dog's Age: ____
Human Years: $15\frac{9}{12}$ Dog's Age: ____	Human Years: $10\frac{1}{12}$ Dog's Age: ____	Human Years: $12\frac{5}{12}$ Dog's Age: ____	Human Years: ____ Dog's Age: $30\frac{11}{12}$
Human Years: $1\frac{1}{6}$ Dog's Age: ____	Human Years: $2\frac{7}{12}$ Dog's Age: ____	Human Years: ____ Dog's Age: $93\frac{1}{3}$	Human Years: ____ Dog's Age: $40\frac{3}{12}$

Name: _____

Pay the bill!

Justin received a bill from Central Water for $136.31. Write the check as Justin would write it.

JUSTIN 1046

DATE _____

PAY TO THE ORDER OF _____ $ ____

_____ DOLLARS

MEMO _____

⑆993443847⑆ ⑈5998 2⑈ 1046

Pay the bill!

Justin received a bill for his cellphone from Mobile Unlimited for $63.55. Write the check as Justin would write it.

JUSTIN 1047

DATE _____

PAY TO THE ORDER OF _____ $ ____

_____ DOLLARS

MEMO _____

⑆993443847⑆ ⑈5998 2⑈ 1047

Write $\frac{4}{12}$ in lowest terms.

Know how many inches in a foot? Okay, smarty pants, how many inches in 7 feet?

How many minutes is it from 8:00 a.m. to 10:55 a.m.?

What is 50% of 1,028?

How many meters are there in 190 kilometers?

How much money is 1 quarter, 1 dime, 1 nickel, and 4 pennies?

Name: _____

Pay the bill!

Rent is due. Adam needs to pay his landlord $3,600. His landlord's name is Mary Taylor.

ADAM 1043

DATE _____

PAY TO THE ORDER OF _____ $ ____

_____ DOLLARS

MEMO _____

⑆997462403⑆ ⑈411688⑈ 1043

Pay the bill!

Adam needs money. He wants to get $100 in cash, so he writes a check payable to cash in this amount. Write this check.

ADAM 1044

DATE _____

PAY TO THE ORDER OF _____ $ ____

_____ DOLLARS

MEMO _____

⑆997462403⑆ ⑈411688⑈ 1044

$$\begin{array}{r} 4{,}442 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 772 \\ \times \quad 66 \\ \hline \end{array}$$

Find the product of 796 and 8.

9, 11, 13, _____, 17, 19, 21, 23, 25

How much money is 1 quarter, 1 dime, 3 nickels, and 1 penny?

Round the decimal 0.465 to the nearest hundredth.

Name: _____

Rewrite this mixed number as an improper fraction.

$14\frac{9}{10}$

Rewrite these numbers in order from greatest to least.

-6 -7.8 -7 -7.802 -7.9

The area of a square is 44.89 square inches. What is its perimeter?

Name: _____

Use any of these digits. Cross off a digit after you use it.

4 2 2 7 3 4

Write the smallest negative 3-digit number that you can come up with. Remember that -82 is smaller than -8.

Use any of these digits. Cross off a digit after you use it. You do not need to use all of the numbers.

7 4 1 1 3

The product of a 2-digit number and a 1-digit number is 91. Write the equation.

Round 14,509 to the nearest thousand.

Write the missing family fact.

105 ÷ 15 = 7

105 ÷ 7 = 15

7 x 15 = 105

$4\frac{6}{9} + 5\frac{1}{9}$

Name: _____

Gavin and Justin are playing a new game. The game uses some special cards and a complex scoring system. The exact scoring system is not important for the purposes of this question. Gavin has cards worth 6, 7, 4, 9, and 4 points respectively. Justin has the same number of cards, but his cards add up to three points more than Gavin's cards. If Justin has cards worth 10, 5, 7, and 10 points, what must his other card be worth?

Jacob has forty-one square stickers of different colors that each measure three inches on a side. He wants to use them to cover the fronts of some notebooks he has. If his notebooks measure nine inches by twelve inches, how many whole notebook fronts can he completely cover with the stickers?

Anne is monitoring the aircraft that fly over her house on their way to land at the local airport. Over the course of the week she counted 28 two-engine jets, 36 propeller driven planes, and 34 four-engine jets. Based on her data, what is the probability that the next aircraft to fly over will be a propeller driven plane?

There are 4,231 spectators at the wildcats' game. The weather is rather bad, so this is not even close to the attendance record for the stadium. In fact the attendance record is greater than the day's attendance by 1,931. What is the attendance record?

Geotest, Inc. drilled a hole in a granite batholith that was 931 meters deep. Globomax, Inc. drilled one in the same formation that was 1102 meters deep. What was the difference between the depths?

The Floop family went to a hockey game last weekend. They spent $12 on food, $32 on souvenirs, and $8 on drinks. What fraction of their expenditures was spent on drinks?

Name: _____

For this page calculate a dog's life as follows:

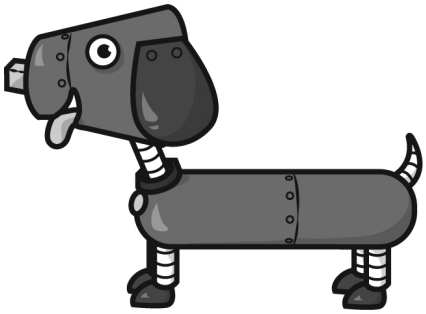
First year of dog's life is 15 human years.

Second year of dog's life is 9 human years.

Every other year of dog's life is 5 human years.

How many times do you need to spin?

I needed to spin ____ time(s) to finish the page.



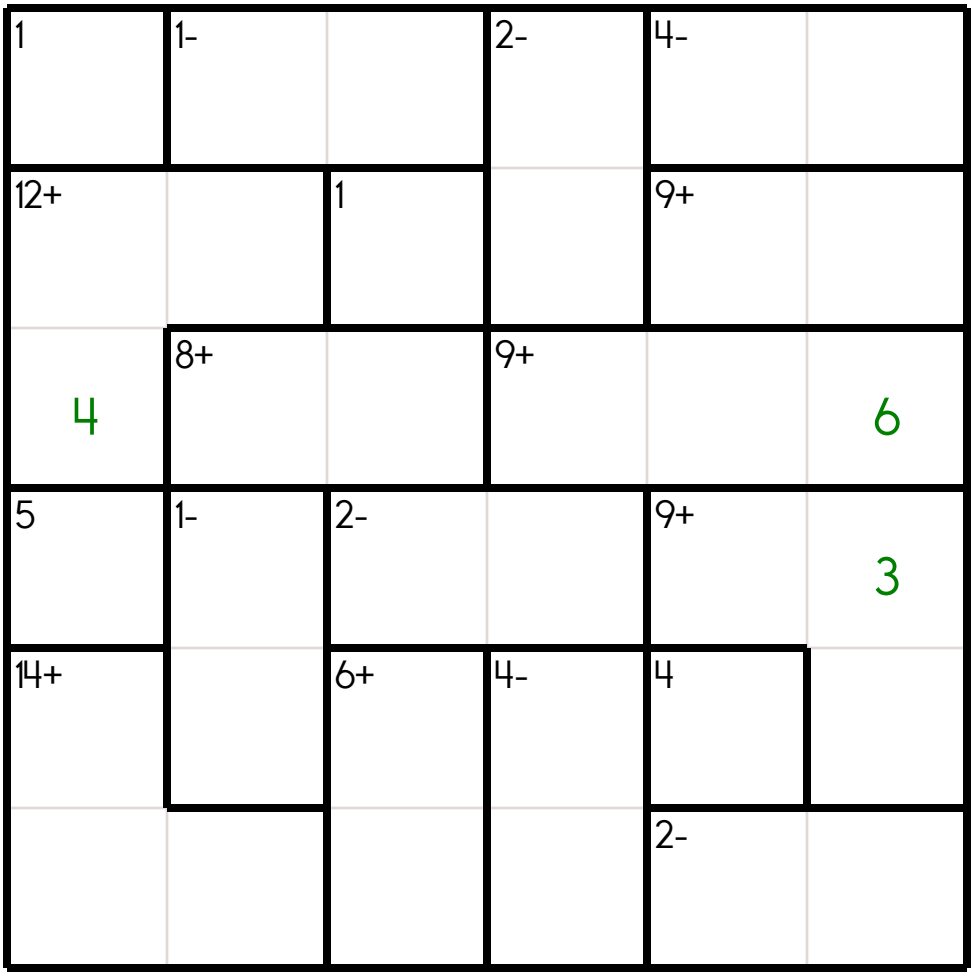
Spin fidget spinner. Quick!

I needed to spin _____ time(s) to finish.

Dog's Age: 59 Human Years: 9	Dog's Age: 69 Human Years: ____	Dog's Age: 29 Human Years: ____	Dog's Age: 29 Human Years: ____
Dog's Age: 74 Human Years: ____	Dog's Age: ____ Human Years: 11	Dog's Age: ____ Human Years: 5	Dog's Age: ____ Human Years: 4
Dog's Age: 24 Human Years: ____	Dog's Age: 15 Human Years: ____	Dog's Age: 39 Human Years: ____	Dog's Age: 74 Human Years: ____
Dog's Age: ____ Human Years: 10	Dog's Age: 59 Human Years: ____	Dog's Age: ____ Human Years: 10	Dog's Age: ____ Human Years: 8
Dog's Age: ____ Human Years: 7	Dog's Age: ____ Human Years: 6	Dog's Age: 54 Human Years: ____	Dog's Age: 49 Human Years: ____

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.



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

____ - 4 = 2

____ - 1 = 2

____ + ____ + 5 = 14

3 + ____ = 8

2 + ____ = 6

2 - ____ = 1

5 - ____ = 2

____ + 3 + ____ = 9

Name: _____

Alexandra has pennies, nickels, dimes, and quarters. She has a total of $10.09. She has twenty fewer quarters than dimes and thirteen more pennies than nickels. She also has nine fewer quarters than pennies and four more quarters than nickels. How many of each coin does she have?

The sum of two consecutive integers is -5,409. What are the integers?

Hannah's investment of 100 shares of UGJ has lost 15% of its value this year. The investment is now worth $1,445. How much was the original per share cost that Hannah paid for UGJ?

Danielle has budgeted to spend three times more on food than on entertainment. She also wants to spend three times more on rent than on food. If she has $1,066.29 to spend, what is the most she can spend on rent?

A mixture of 12% vegetable broth and 88% water is to be used in making a soup. How much vegetable broth should be added to 22 liters of water to make the mixture?

The sum of the reciprocals of two numbers is $\frac{5}{27}$. The second number is nine times larger than the first number. What are the two numbers?

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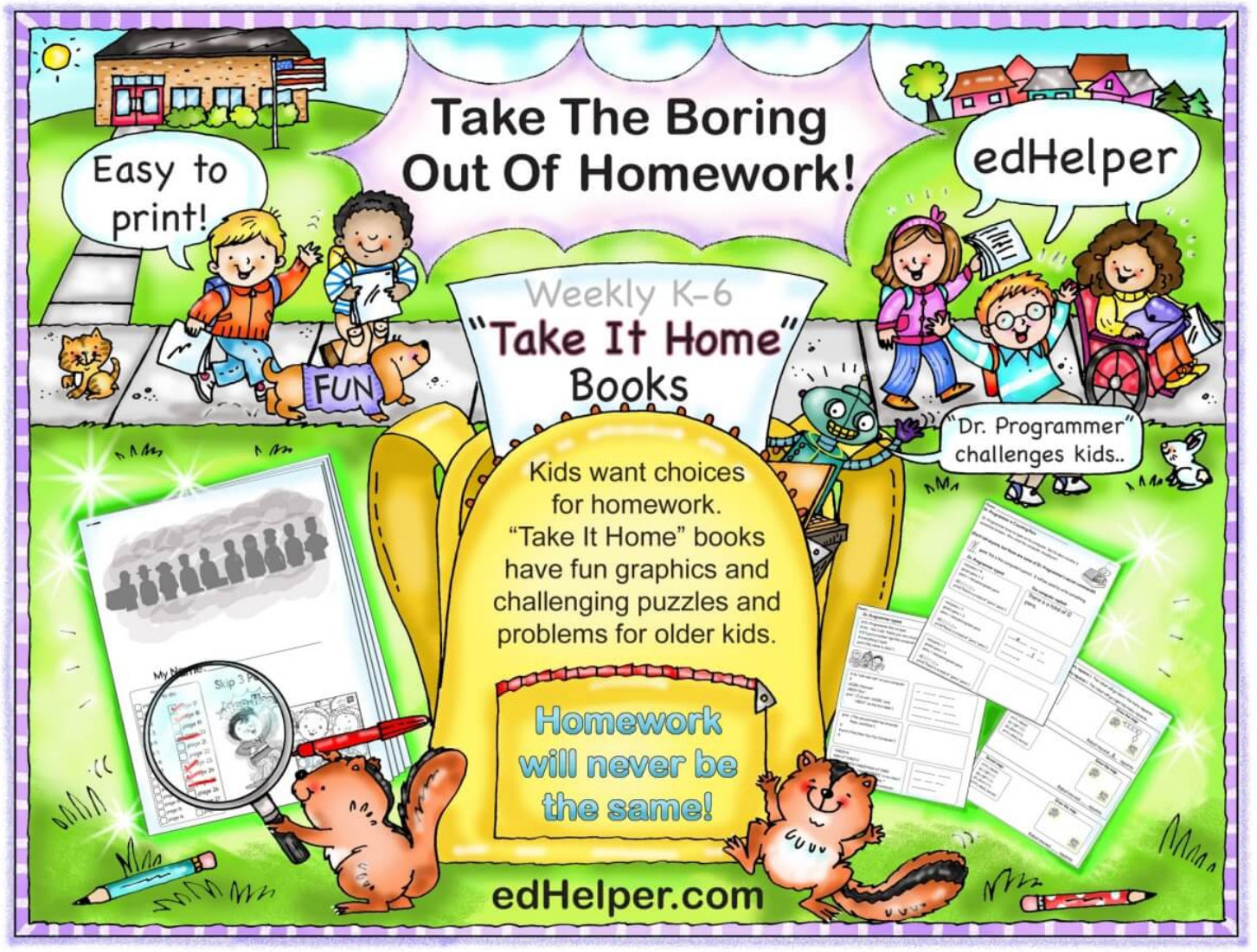
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