MONTHLY MATH CHALLENGE

Homework

May



My Name: _____

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Hand in by May 31.

Feel free to hand in early!



He/she helped by checking my work.



	I did page 1	I decided to skip this page edHelper
Name:		-
Samantha is planning to drive to Erin's house. She hasn't se is 138 miles away. The gas tank on Samantha's car can hole car will go 25 miles on one gallon of gas. Right now the gas tank is showing that it is one-third full (o Can Samantha make it to Erin's house without getting gas	d 16 gallons of g or two-thirds em	gas. On average the pty!).
Show your work.		

	I did page 2	I decided to skip this page edHelper
Name:		curresper
Scarlett plays soccer before breakfast, after school, "What's the most you ever juggled?" asked her brotl "Twenty more than you have ever juggled," laughed Bobby was steaming red. He practiced all week but one-third. Even with that improvement, he was still to What is the most Scarlett has ever juggled?	her Bobby. d Scarlett. was only able to bea	t his high score by
Show your work.		

Name:				I did page 3	I decided to skip this page edHelper
Complete each pattern, using the san	ne rul	e. Wr	ite wh	at the rule is.	
Z, W, .	, _	, N	√, K, F	Н, Е, В	
,					
	,,	,	, <u>-</u>	., . , .	
Complete each pattern. Write what the rul r	e is.				
	96	88	80		
	72	64			
	48	40			
	24		8		
L					

I did page 4	I decided to skip this page edHelper
Name:	
Peter is taking a 24-hour walk challenge. He is trying to stay awake for 24 h	nours and plans
to walk as far as he can. Each hour he plans to sit and rest for only 5 minut	tes. If he is able
to do this, how long will he spend walking and not resting during the 24 hou	rs?
hours and minutes	
Rosa is buying candy mixes for goodie bags. Each fun mix packet weighs 4	ounces. She
purchased 6 pounds. How many packets did she buy?	
(Hint: 1 pound = 16 ounces)	
Nathan thought he would never finish cooking. He made 108 muffins, of wh	nich 1/4 were
chocolate and the rest were vanilla. How many chocolate muffins did he m	nake?

	I did page 5	I decided to skip this page edHelper
Name:		curresper
Emily just started a job using her bicycle to pick up grocer neighborhood. Once a grocery order is placed on DriveF groceries and then deliver them. She has to pay the Drive \$50, then Emily has to give the DriveFoodApp company 20 Today, she had time to do 5 deliveries. The delivery fees w "Don't forget sometimes people tip," adds Emily. "And I get Oh. Sorry! She got tips of \$2, \$3, \$5, \$10, and \$1. How much money did Emily make on deliveries today?	oodApp, Emily v FoodApp 20%. D% of that. She v vere \$15, \$12, \$20	will go pick up the If the delivery fee is gets to keep the rest.), \$18, and \$22.
Show your work.		

Jame:	I did page 6	I decided to skip this pag edHelper
The number 7500 is the smallest whole number that wh	nen rounded to	the nearest
will be 8000.		
Use any of these digits. Cross off a digit after you use	it.	
4 3 8 3 1 0	8 1	1 7 7
What is the smallest number greater than 400,500 that	you can make	from these digits?
Amy lives in Mexico City where it is currently Sat. at 11:15	a.m. She made	e a phone call to
Rose who lives in Helsinki. It is 7:15 p.m. and Sat. in Helsin	nki. What is the	difference in time?

	I did page 7	I decided to skip this page edHelper
Name:	_	carresper
It was Mrs. Johnson's birthday, and she made her favorite class.	homemade co	ookies to share with the
"I hope you all enjoy my homemade cereal crunch cookie cereals to make this. Unique!" says Mrs. Johnson as she saw worry! They are all nut free."		
The class LOVED them. In no time at all the class ate five-size "Mrs. Johnson," said Hannah, "you need to do OUR tradition need to eat as many cookies as you can."		
As the class began to sign, that is just what Mrs. Johnson did three-fourths of the cookies that were left. In case you are How many cookies did Mrs. Johnson bring to class that day	e curious, that v	_
Show your work.		

Name:	did page 8 🔲 I de	ecided to skip this page edHelper
On May 5, 1961, Alan Shepard became the first American in sp minutes, 28 seconds, and he reached an altitude of 116 miles al On May 5 of this year, how many days ago was it that Alan Sh make this easier, just assume 365 days per year and ignore le	pove the Earth. Depard went into	
How many seconds did Shepard's flight last?		
There are 0.62 miles in 1 kilometer. How many meters above the	ne Earth did Sher	pard orbit?

Get a fidget spinner! Spin it.

t - 10 + t = 24What is the value of t? What is the greatest common factor of the

numbers 91 and 104?

Circle the greatest amount: 40% 0.18 11 25

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

|-10| - x = 2x =

(11 + 3 + 5) =

Simplify. 3,000 =9.000

Dr. Rock discovered a new planet. As he explains it, this new planet has a diameter that is 8.22 times that of Earth's. If Earth's diameter is 12.756 kilmeters. What is this new planet's diameter?

Crazy Peter had pizza 15 days in the month of January. What percent of the month did he have pizza?

8, 15, $8\frac{1}{4}$, $15\frac{1}{4}$, $8\frac{1}{2}$, $\frac{3}{4}$, $15\frac{3}{4}$, 9, 16, $9\frac{1}{4}$, $16\frac{1}{4}$, $9\frac{1}{2}$

 $3 \times (32 \div 4) - 24 \div 8 =$

70, 74, 78, 82, 86,

____, 94, 98, 102, 106

Circle the percentage that is closest to 37 out of 50:

7%

33%

70%

Spin again.

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

$$\frac{2}{7}$$
 x $\frac{4}{7}$

If

10,000,000

= 10^{x} , then what is the value of x?

Find the least common denominator for the fractions $\frac{3}{6}$ and $\frac{6}{12}$.

What is the remainder of 22 divided by 4?

60, 70, ____, 90, 100, 110

698 ÷ 10

Use >, <, or = to complete.

72% ___ 3 <u>1</u> __ 72% $32\% \ \underline{\ \ } \ \underline{\ \ }$

Rewrite as an algebraic expression or equation.

The quotient of j and 13 is 3.

 $\frac{6}{9}$ x $\frac{1}{5}$

Rewrite $\frac{7}{50}$ as a decimal.

I did page 11 I dec	cided to skip this page edHelper
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Complete each pattern.

Name:

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

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

N T	I did page	12 I decided to skip this pag edHelper
Name: Make change. You can use \$20, \$10, \$5, \$1, 25	5¢, 10¢, 5¢, or 1¢.	
Make \$35.43 using bills and coins. \$5 25¢		
Show a different way to make \$35.43 usin	g a different number of bi	lls or coins.
Make \$52.36 using bills and coins.		
Show a different way to make \$52.36 usin	g a different number of bi	lls or coins.
Write as a decimal. Nine and twenty-one hundredths Write as a second with the	a decimal. Write 14 1	te as a decimal.

I did page 13 I decided to skip this page edHelper
Mrs. Leema is in charge of ordering pizza at her school for all the kids on pizza Tuesdays. Each child is billed \$4 per week if they want to join the pizza program. They get 2 slices of pizza, a small drink, and a healthy snack. "Please order at least 2 extra pies this week," instructs the principal. "Last week we somehow ran out!" There are 198 kids at the school. Almost everyone is on the pizza program, as only 15 kids are not a part of it. "Yeah," interrupts Jacob. "I don't like pizza. I prefer octopus." "Uhh, gross," replies Jenny. "He's kidding!" replies the principal. Mrs. Leema needs to order the pizza from Anthony's. They make the best pizza in town. Each pie comes with 9 slices. How many pies should Mrs. Leema order?
If the pies cost \$8.49 each, how much will that be?

	I did page 14 I decided to skip this page edHelper
Name:	
Time and again Ms. Jackson visited the museum. Tuesday she arrived at the museum at 12:45 p.m. She spent 1 hour and 29 minutes looking at the exhibits, 11 minutes in the gift shop, and 49 minutes in the teahouse before she left. What time did Ms. Jackson leave the museum?	Kevin played a joke on his father. On Mirth Day Kevin planted 13 potato plants in his father's garden. He watered the plants and took care of them until the potatoes were ready to dig up. His father was very proud of him. Then he saw the potatoes. There were 11 purple potatoes on each plant! How many purple potatoes were there in all?
hour? Assume she takes a 10-second break	make. How many fidgets can she make in an
What is the missing fraction? $\frac{2}{7} + ? = 1 \frac{2}{21}$	

I did page 14

		did page 15 I decided to skip this page edHelper
Name:		euneipei
5145 is how much more than 7316?	5 0,8 0 6 - 4 8,9 6 7	7 0,5 8 4 - 4 9,7 1 3
260 + 51 =	Subtract 895 from 4032.	7,004 - 1,388
Divide and write remainder. $\frac{42}{8} =$	20)760	2)703
	Divide and write remainder.	Divide and write remainder.
8 1 2 + 7 4	572 - 511	Subtract 95 from 621.
6,7 8 0,3 4 0 - 8 5,6 3 6	683 - 25	7 3 9,4 7 4 - 5 4 2,2 1 6

I did page 16 I decided to skip this pa edHelper
Anthony's received your pie order. (I hope you ordered enough pies so everyone will get 2 slices. And you didn't forget about the 2 extra pies did you?) Anthony's pies are world famous. They use exactly 6.5 oz of cheese on each pie. How many pounds of cheese will Anthony's use for this order?
Mrs. Leema picks up drinks at the supermarket. They are \$2.34 for 20-packs. They can only be purchased as 20-packs. How much will that be?
She also gets healthy snacks. The healthy snacks came to a total of \$57. Will Mrs. Leema collect enough money from the children on the program? If she does, how much is left over? If she doesn't, how much will she be short that the school will need to reimburse?

I did page 17 I decided to skip this page edHelper
Cross off the number that does NOT belong.
9, 18, 23, 27, 36, 45, 54, 63, 72
VA/I
Why does not belong in the pattern?
Cross off the number that does NOT belong.
787112, 127871, 711278, 787112, 127871, 711278, 787112, 127871,
711278, 787112, 127871, 127871, 711278, 787112, 127871
Why does not belong in the pattern?

Name:

Name: _								
60 3	- 1/2			+41		+1 1/2		
		-8 <u>1</u>	+ 3				+17	
		+46	+7 1/2				- <u>2</u> 5	
	-34		28 4 5			+4		
-19			- <u>1</u> 5		+16			
- 3 5		+9	-24		- 4 5		+53	168 1 5

132 ÷ 12 =	Max invented a robotic bug. The bug can crawl five centimeters in sixteen seconds. How long would it take the bug	7 9 5 - 6 5 7
2 5 + 4 1	to crawl forty centimeters?	



Name:	I did page 19 I decided to skip this page edHelper
Metro Messenger Service delivered one million, thirty-six thouse messages last year. Write that number in standard form.	usand, seven hundred
The total attendance at the Winter Wonderland Festival was hundred thirty-six. Write this number in standard notation.	thirty-eight thousand, two
The Police Week 5K race attracted runners from all over the the winner, had a time of 14:30. The second place time was the winner than the second place finisher?	

Name:	I did page 20 I dec	ided to skip this page edHelper
Write your own math problem here.		
Ask the person who helped you to try to solve your p	roblem.	

		I did page 2	1 I decided to skip this page edHelper
Name:			
Directions:			w many timos
Use the rule that			w many times you need to spin?
1 human year = 7 dog y to fill in the blanks.	/ears	\	you need to spiri:
TO THE HT THE DIGHES.			needed to spin ne(s) to finish the page.
Spin fidget spinner. Quick!		I needed to spi	n time(s) to finish.
Human Years: <u>5</u>	Human Years: <u>9.6</u>	Human Years: <u>1.9</u>	Human Years: <u>3.8</u>
Dog's Age: <u>35</u>	Dog's Age:	Dog's Age:	Dog's Age:
Human Years: <u>10</u>	Human Years:	Human Years: 11.2	Human Years:
Dog's Age:	Dog's Age: <u>49</u>	Dog's Age:	Dog's Age: <u>84</u>
Human Years: 10.3	Human Years:	Human Years:	Human Years:
Dog's Age:	Dog's Age: <u>51.8</u>	Dog's Age: <u>42</u>	Dog's Age: <u>81.9</u>
Human Years:	Human Years: <u>1.5</u>	Human Years: _9_	Human Years: <u>6.4</u>
Dog's Age: <u>14.7</u>	Dog's Age:	Dog's Age:	Dog's Age:
Human Years:	Human Years: <u>8</u>	Human Years:	Human Years:
Dog's Age: <u>86.1</u>	Dog's Age:	Dog's Age: <u>25.2</u>	Dog's Age: <u>56</u>

I did page 22 I decided to skip this page dedHelper
Name:
Justin lined up 8-inch long blocks next to each other. He had 26 of these blocks.
Now Billy wants to make the same length but use 4-inch blocks. How many 4-inch blocks
will he need to use?
Amy needs to make 30 sugar cookies for a big party, but her favorite recipe is only for 10
cookies. The recipe calls for $1\frac{3}{4}$ cups of sugar. How much sugar will she need to use?
Sarah drew a square. She said, "My square's perimeter is 60 cm more than its area."
Ava wants to draw the same square but is confused. "You can't subtract area from
perimeter," she replied. Ava knows the area should be in square centimeters and

perimeter is in centimeters. Sarah just thought they were both in centimeters. Can you

figure out how long each side of her square is?

	I did page 23 I decided to skip this page edHelper
Name:	
Hannah got a summer job working on an app where	
This week they had 1,000,000 pictures posted. Of the	ose pictures, 49% were dogs. How
many pictures of dogs did they get this week?	
Rewrite this mixed number as an improper fraction.	
5 7 11	
What is the greatest $ -14 + g = 7$	9 + (72 ÷ 6) - 44 ÷ 4 =
common factor of the numbers 80 and 144? g =	
9	

Name:	I did page 24 I decided to skip this page edHelper
Twenty-four percent of the plants in the park are broad-leafed plants and the rest are grasses. What percent of the plants are grasses?	Connor has a record of winning 2 boxing matches for every 3 he loses. If he had 43 matches during the last year, how many did he win?
If the ratio of red flowers to yellow flowers in the local park is 8:4 and there are approximately 700 red or yellow flowers currently blooming in the park, about how many of them are yellow? You may need to round to the nearest whole number.	Gavin made seven pepperoni pizzas for a party. He cut the pepperoni himself from a sausage that was 14 inches long and $1 \cdot \frac{1}{2}$ inches in diameter. The pizzas were each 16 inches in diameter. His friend Amy is a real math whiz (a math freak some say) and took the opportunity to calculate what percent of the total pizza surface area was covered by pepperoni. The pepperoni was cut into slices $\frac{1}{8}$ of an inch thick. Each pizza has the same number of whole pepperoni slices. (He ate any extra pepperoni!) What percent of the total pizza surface area was covered by the pepperoni? Round your answer to the nearest hundredth.

Name: _

Use >, <, or = to complete.

Convert to a fraction or mixed number and simplify.

Write each as a decimal.

$$14\frac{49}{100} =$$

$$16\frac{33}{100} =$$

$$16\frac{2}{10} =$$

$$6\frac{81}{100} =$$

$$19\frac{12}{100} =$$

$$15\frac{6}{10} =$$

Write the decimal in words. 13.7

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

Write the reciprocal.

Write the reciprocal.

1 4

Write the reciprocal.

$$4 - \frac{1}{3} + \frac{5}{12} =$$

Reduce $\frac{6}{444}$ to its lowest terms.

Reduce $\frac{81}{171}$ to its lowest terms.

$$7 + \frac{3}{5} - \frac{6}{7} =$$

Write the reciprocal.

Write the reciprocal.

8 23

$$\frac{3}{11}$$
 x $3\frac{8}{9}$ =

$$4\frac{1}{3} \times 4\frac{3}{5} =$$

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

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

Reduce $\frac{45}{63}$ to its lowest terms.

Reduce $\frac{40}{80}$ to its lowest terms.

_		_	
	I did page 27		I decided to skip this page edHelper

Name: _

Write the reciprocal.

$$13 - \frac{4}{7} - \frac{1}{3} =$$

Write the reciprocal.

Write the decimal number for:

seven hundredths

8.8 x12.1

0.026) 0.10374

Rewrite as a vertical equation and solve. 456.279 + 456.279 + 147.465 + 5.5 + 467.97932

I did page 28	I decided to skip this page edHelper
	carresper

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.

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.

3	3-	15+		1
16+		2-		
	2-	1	4	3-
4		2-	3	
		1- 2		3

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

$$_{-}$$
 - 2 = 3