

Name: _____

Sally loves softball. She plays in a league where she has 3 games a week, not to mention 2 practices a week. Talk about exhausting!

So far this season, she has played 30 games. She's been to the plate 100 times. Of those 100 times, she's walked 15 times and had 20 hits.

"Hey, Sally," yells Sam. He is also known as Statistic Sam. "I'm trying to calculate your batting average. I just need to take the number of hits and divide that by your at bats."

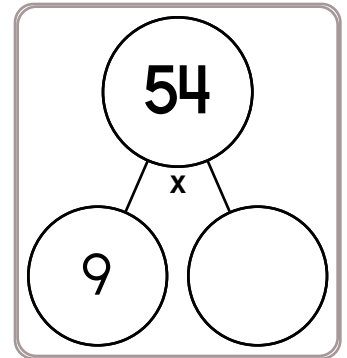
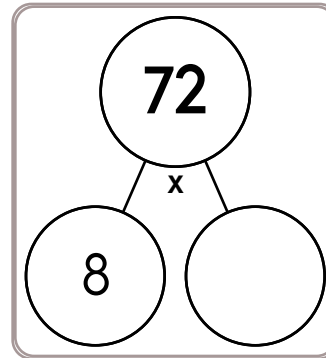
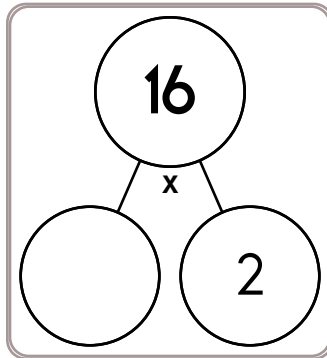
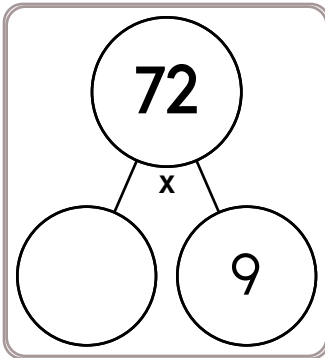
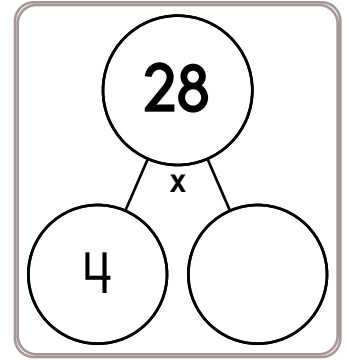
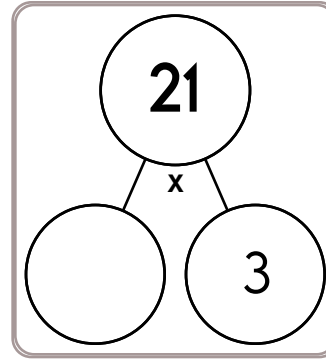
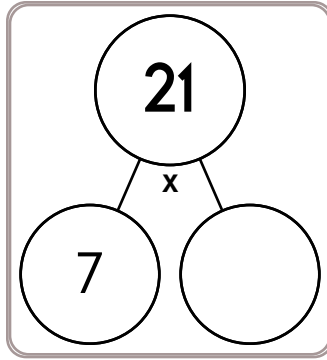
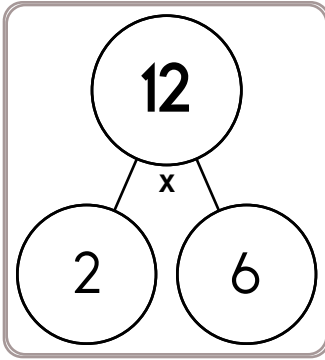
"Go for it," replies Sally. "Don't forget that walks don't count as at bats!"

"Huh? Oh, yeah, thanks!" replies Sam. He knows, for example, if she had 5 plate appearances with 1 walk and 1 hit, her average would be 1 for 4 or 0.250. In softball (and baseball) they always show an average with 3 decimal points.

What's Sally's batting average?

During the game, Sally went to the plate 5 times. Wow! She didn't walk, but she had 2 singles. Will her average go up or down after this game?

Name: _____



$$\underline{\hspace{2cm}} \div 11 = 6$$

$$488 \div \underline{\hspace{2cm}} = 61$$

$$\underline{\hspace{2cm}} \div 6 = 98$$

$$205 \div \underline{\hspace{2cm}} = 5$$

$$280 \div \underline{\hspace{2cm}} = 8$$

$$\underline{\hspace{2cm}} \div 91 = 5$$

$$208 \div \underline{\hspace{2cm}} = 4$$

$$\underline{\hspace{2cm}} \div 58 = 7$$

$$11 \overline{) 99}$$

$$5 \overline{) 10}$$

$$10 \overline{) 120}$$

$$3 \overline{) 15}$$

$$10 \overline{) 90}$$

$$3 \overline{) 24}$$

$$9 \overline{) 45}$$

$$12 \overline{) 48}$$

Name: _____



$21 \div 7 =$

$48 \div 8 =$

$24 \div 4 =$

$18 \div 3 =$

$20 \div 4 =$

$15 \div 3 =$

$27 \div 3 =$

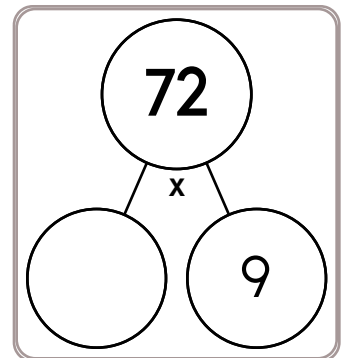
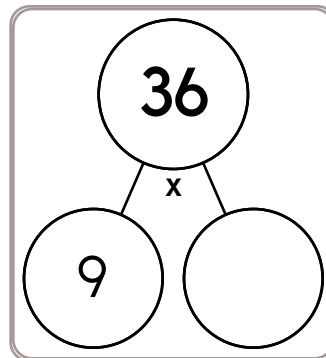
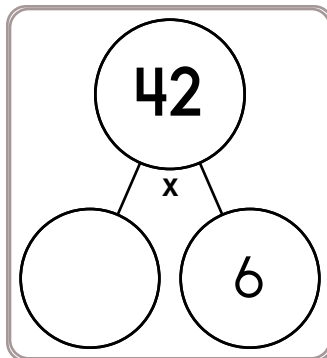
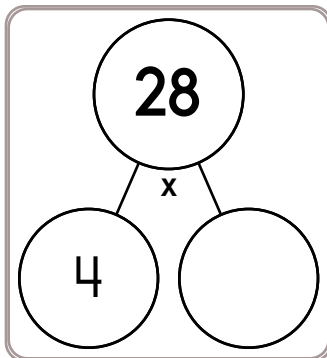
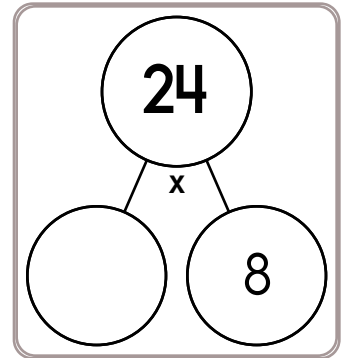
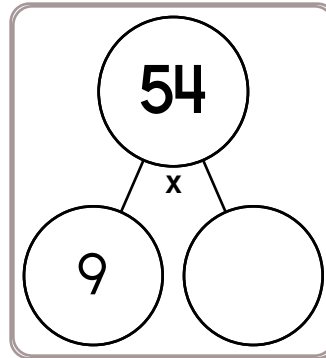
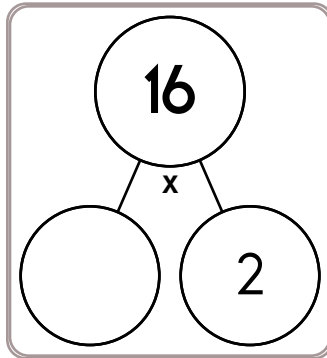
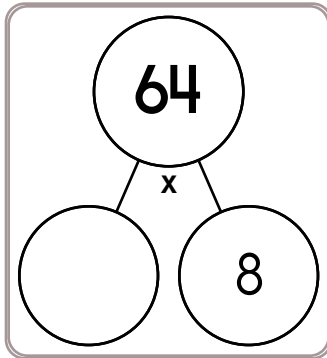
$28 \div 7 =$

$45 \div 5 =$

$18 \div 2 =$

$28 \div 4 =$

$18 \div 6 =$



$4 \overline{) 32}$

$5 \overline{) 45}$

$9 \overline{) 72}$

$2 \overline{) 10}$

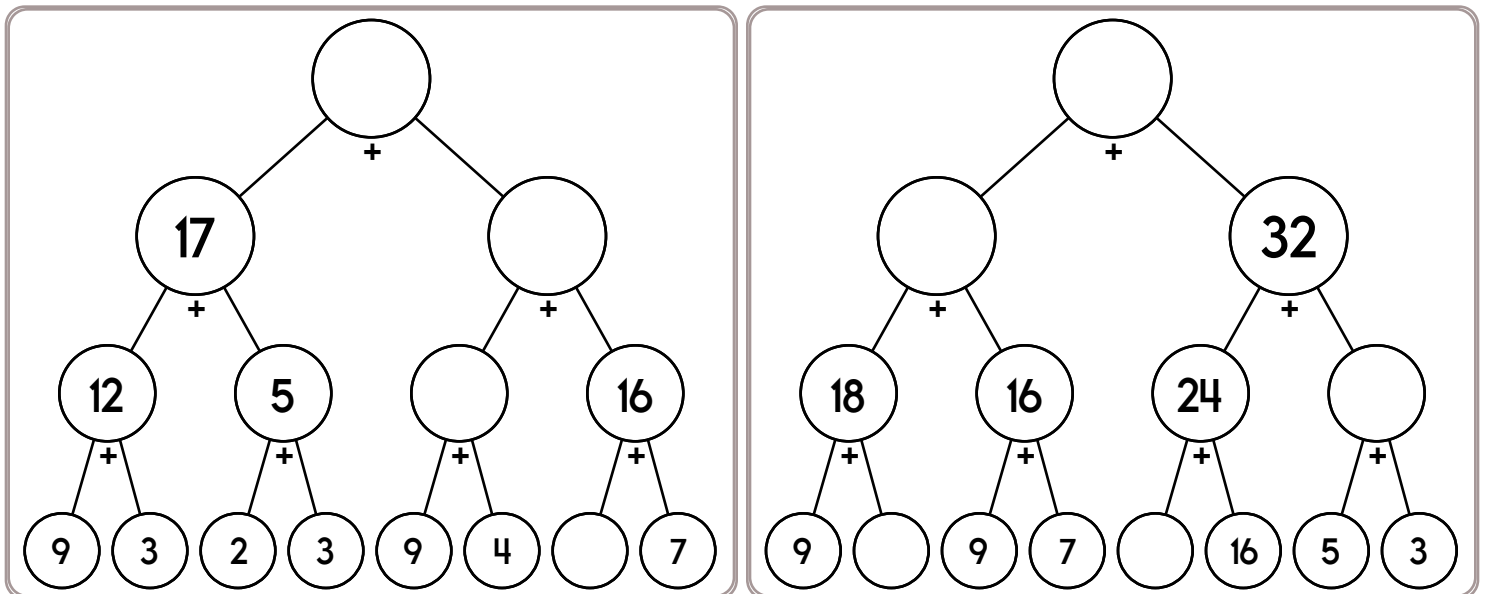
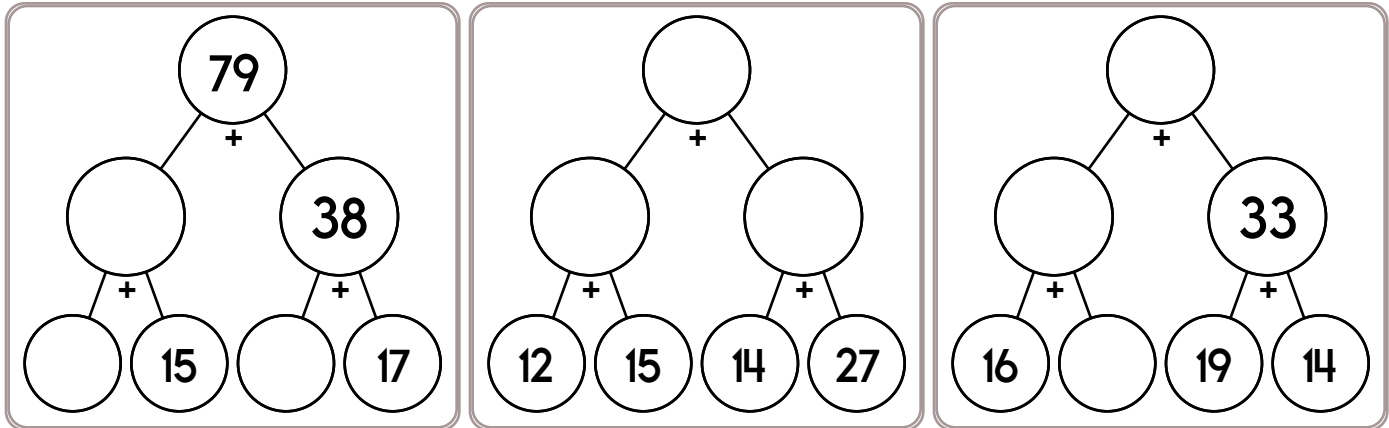
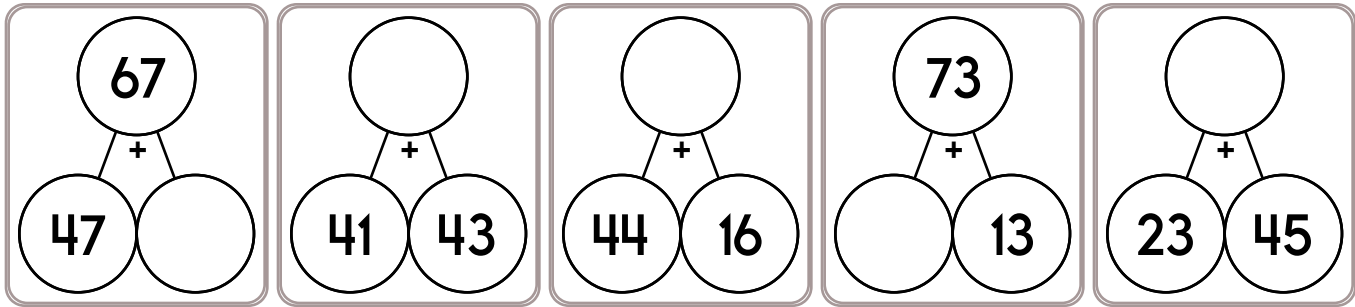
$8 \overline{) 40}$

$8 \overline{) 72}$

$7 \overline{) 42}$

$7 \overline{) 63}$

Name: _____

Rewrite $7 + -4$

____ - ____ = ____

Rewrite $19 + -17$

____ - ____ = ____

On a number line, what is the number that is 5 spaces right of -3?

Name: _____

$$11y = 77$$

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

$$3n = 6$$

$$|-7| + y = 4$$

$$y =$$

$$16a - 12.9 = 123.1$$

$$a =$$

Circle the percentage that is closest to 30 out of 61:

65%

46%

14%

$$5 \overline{)47.5}$$

Change $\frac{4}{5}$ to a decimal.

Change $\frac{1}{2}$ to a decimal.

$$0.7 (0.9 (0.7 + 8)) =$$

Simplify.

$$\frac{172}{301} =$$

$$7 \times 99 \div 9 - 24 \div 4 =$$

$$7 \times (36 \div 4) - 56 \div 7 =$$

If $h = -7$ and $m = 37$ then what is $4h - 9m - 3m = ?$

$$13.2585 \times 10^3 =$$

Name: _____

In what quadrant would you find the point (2, 9)?

What is the remainder of 77 divided by 9?

$$8 - 2 + 1 + 9 \times 11$$

An angle measures 156° .
What would you call this angle?

Sketch a right angle named $\angle CDE$.

What kind of angle has a measure of between 90° and 180° ?

$$10b - 15.6 = 15.4$$

$$b =$$

$$0.7 \times 0.06$$

If $n = -4$ and $h = 32$ then what is $11n + 10h - 2h = ?$

$$\begin{array}{r} 31 \\ \times 14 \\ \hline \end{array}$$

Find the product of 34 and 7.

$$\begin{array}{r} 770 \\ \times 55 \\ \hline \end{array}$$

Rewrite $\frac{17}{25}$ as a decimal.

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

$$\frac{1}{2} \quad \text{—} \quad 49\%$$

$$\frac{1}{2} \quad \text{—} \quad 87\%$$

$$73\% \quad \text{—} \quad \frac{2}{11}$$

$$5 + (72 \div 6) - 33 \div 3 =$$

Name: _____

Cross off the number that does NOT belong.

13, 15, 16, 17, 19, 21, 23, 25

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong.

 $45\frac{1}{2}$, $43\frac{1}{6}$, $40\frac{2}{3}$, $38\frac{1}{3}$, $35\frac{5}{6}$, $33\frac{1}{2}$, 31,
 $28\frac{2}{3}$, $26\frac{1}{6}$, $23\frac{5}{6}$, $21\frac{1}{3}$, $19\frac{2}{3}$, 19, $16\frac{1}{2}$

Why does _____ not belong in the pattern?

Name: _____

Each box needs a number from 1 to 9. You may re-use numbers.
One set of sums has been done for you.

sum of 10 ↓		sum of 10 →					
	sum of 5 ↓		sum of 8 ↓	sum of 5 →			
		sum of 8 →	4			sum of 9 ↓	sum of 9 ↓
sum of 6 ↓		sum of 10 ↓	4		sum of 5 →		
			sum of 8 ↓	sum of 8 →			
	sum of 10 →						
	sum of 6 →						
				sum of 6 →			

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

Simplify.

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

$$8 \times 48 \div 6 - 30 \div 5 =$$

$$0.8 (0.3 (0.8 \times 4)) =$$

$$p - \$60 = \$32$$

What is the value of p?

Simplify.

$$\frac{4,000}{6,000} =$$

$$|-8| - f = 5$$

$$f =$$

Simplify.

$$\frac{32}{48} =$$

In what quadrant would you find the point (10, 15)?

$$|-9| - w = 13$$

$$w =$$

Name: _____

Sally bought a kit to make fidgets. The box says that you can make up to 36 fidgets. Sally tried to make one. It took her 45 seconds to make. How many fidgets can she make in an hour? Assume she takes a 10-second break after making each fidget.

Fill in the missing numbers.

$$7.427 = 742.7 \div \underline{\hspace{2cm}}$$

$$0.07427 = 742.7 \div \underline{\hspace{2cm}}$$

$$0.7427 = 742.7 \div \underline{\hspace{2cm}}$$

Bob, the donut guy, is working on a new type of donut called the 1.9-ounce sugar mini donut. Each donut weighs precisely 1.9 ounces. About $\frac{1}{5}$ 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: _____

Miss Moore made a popcorn cake for a friend's birthday. She used $\frac{3}{4}$ pound of popcorn. She used $\frac{3}{4}$ of that amount in the cake. She used the rest for decorating. How many ounces of popcorn did she use for decorating?

If a herd of elephants consumes 5,000 kg of vegetation every day, how many kilograms of vegetation will they need, to last an entire year (365 days)?

The area of a square is 6.25 square inches. What is its perimeter?

Write as a decimal.

$$9\frac{52}{100}$$

Write as a decimal.

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

Write as a decimal.
Eleven and eighty-five hundredths

word root **con** can mean **together**

contacts, contract

Name: _____

$$\frac{2}{7}$$

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

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

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

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

Name two of the above numbers that have a sum of $1\frac{3}{14}$.

Amanda is riding her bike and Megan is riding a scooter around the block. They both started riding at exactly 3:27. Gavin is lazy. He is just sitting on the porch watching Amanda pass by every 7 minutes and Megan pass by every 10 minutes. At what time will Gavin see them pass by at the same time?

Pam has 51 coins in her toy bank. The code to open this cool bank is 7178. She has no quarters, bills, or pennies. All she has are nickels and dimes. They total \$4.30. How many dimes does she have?

Name: _____

48	$+\frac{1}{2}$		+52				$-5\frac{1}{4}$		$+\frac{2}{4}$
				$+3\frac{2}{4}$		$-\frac{1}{2}$			
	+15		-32						$-\frac{1}{2}$
$+\frac{2}{4}$						-9			$+\frac{1}{4}$
$-\frac{1}{2}$						-6			
									-34
-8						-37		$+1\frac{1}{2}$	
+53		+11		$+7\frac{1}{2}$	$150\frac{1}{2}$	$-\frac{2}{4}$		-49	11

Circle the smallest number:

94,561,958,324

432,089

3,403,278


517,687,621,590

$$\begin{array}{r} 39 \\ + 40 \\ \hline \end{array}$$

$3 \times 6 = \underline{\hspace{2cm}}$

word root **avia** can mean **bird** **aviation, aviatrix**








$52\frac{2}{7}$	-39		$-\frac{1}{2}$		-5		$-9\frac{4}{7}$		$-\frac{4}{7}$
				+14	+57				
	$+2\frac{2}{3}$		$+\frac{1}{3}$		-12		+4		-59
+40									
					-32		+36		
$-\frac{1}{2}$					$68\frac{2}{3}$				
	$-7\frac{2}{7}$		+6		$+\frac{2}{3}$		$+\frac{2}{7}$	$48\frac{13}{42}$	

$1 \text{ km} = 1,000 \text{ m}$ $26 \text{ km} = \underline{\hspace{2cm}} \text{ m}$	Anne rolls two dice. She adds the numbers on the two dice. What is the chance of this sum being five?	$5 \times 8 =$
$822 - 735 = \underline{\hspace{2cm}}$		



Name: _____

Puzzle:

3			135
3			135
			144
36	225	324	X

Work Area:

3			135
3			135
			144
36	225	324	X

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



= _____












= _____



= _____

Puzzle:

			294
			567
			486
441	324	567	X

Work Area:

			294
			567
			486
441	324	567	X

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



= _____



= _____



= _____

Name: _____

$$y = x + 16$$

$$y = 23$$

What is the value of x?

If $n = 7$ and $c = -11$ then
what is $9n - 8c + 2c = ?$

What is the remainder of
87 divided by 18?

The letter p is used to
represent power points in
a game, which can range
from 281 to 1,734 points.
Express this as an inequality.

$$0.2 \times 0.07$$

If $5x = 70$, then $x =$

$$\frac{18}{20} \div \frac{2}{10} =$$

What is the greatest
common factor of the
numbers 75 and 135?

$$0.2 (0.4 (0.2 + 4)) =$$

Find the least common
denominator for the
fractions $\frac{23}{24}$ and $\frac{8}{12}$.

Rewrite as an algebraic
expression or equation.

Four more than y tripled is
one hundred fourteen.

The unknown value x is a
multiple of 6, is greater
than 264, and it is divisible
by 16. What can be the
lowest possible value of x?

Name: _____

$$2 \times 2 \times 2 \times 2 \times 2 = 2^x$$

What is the value of x?

$$|-6| - v = 8$$

v =

$$2 + 36 \div 4 - 35 \div 7 =$$

$$\frac{2}{4} + \frac{d}{8} = 1\frac{3}{8}$$

d =

What is the prime factorization of 132?

The angles in a quadrilateral measure 113° , 87° , 77° , and b° . What is the value of b?

$$4 \times 4 = Z^y$$

What is the value of Z and y?

$$9.1324 \times 10^3 =$$

$$t - 6 + t = 42$$

What is the value of t?

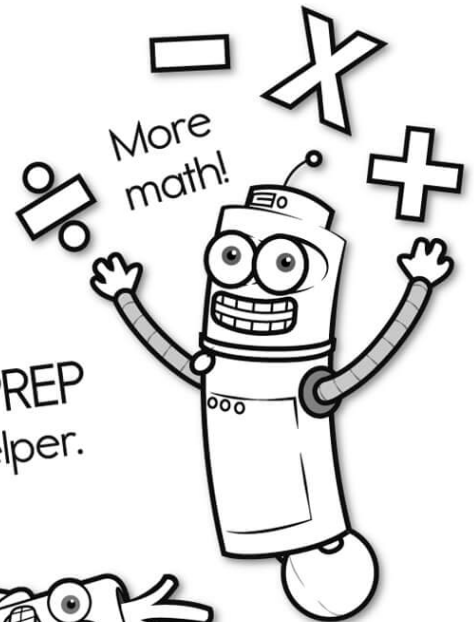
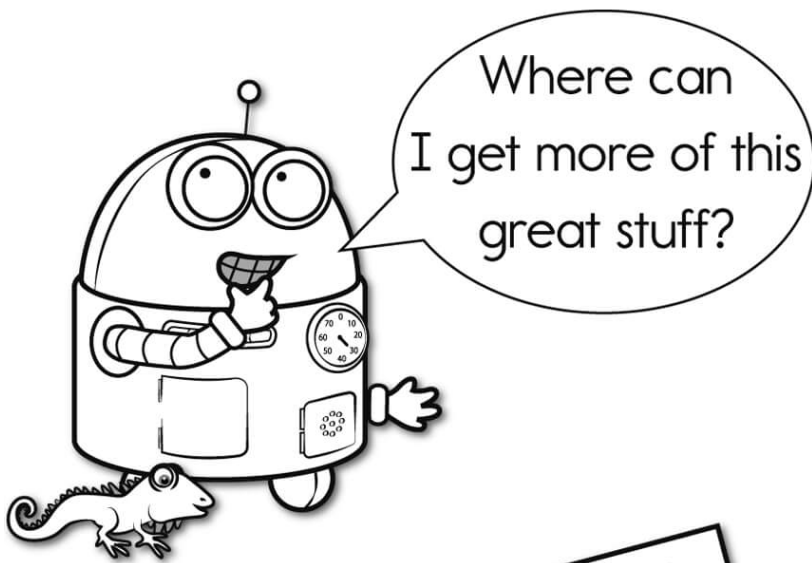
Write as an algebraic expression.

851.1 divided by the sum of p and g

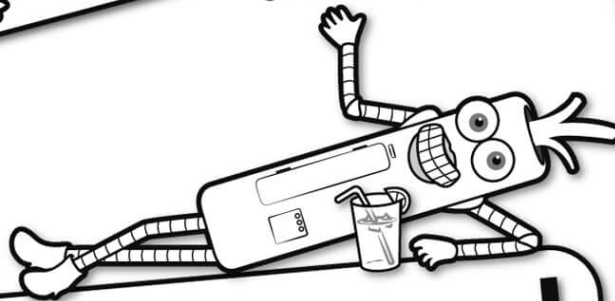
$$604 \div 10$$

$$\frac{1}{4} + \frac{7}{d} = 1\frac{1}{8}$$

d =

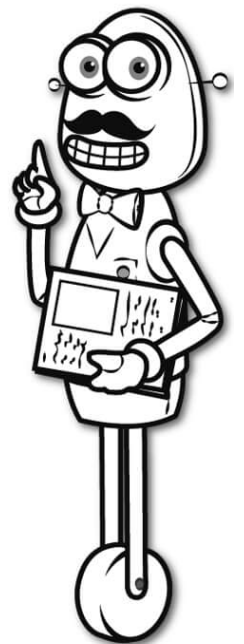


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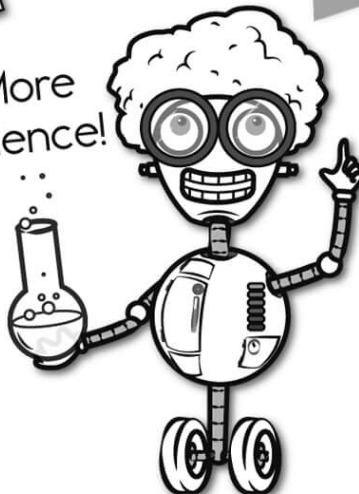
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Things for the
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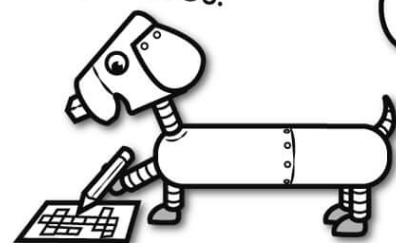
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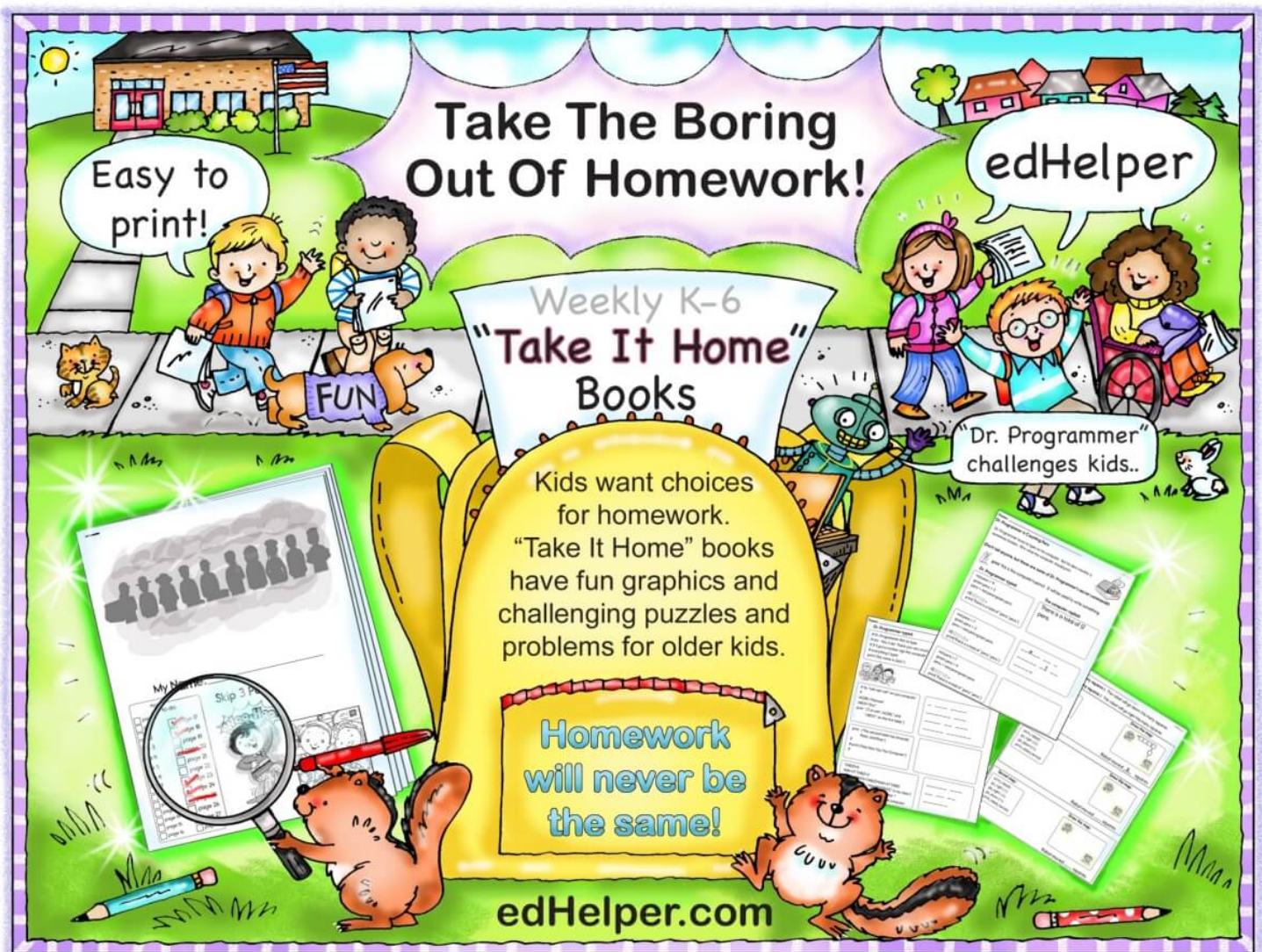


New
ideas!



More
puzzles!





Name: _____

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

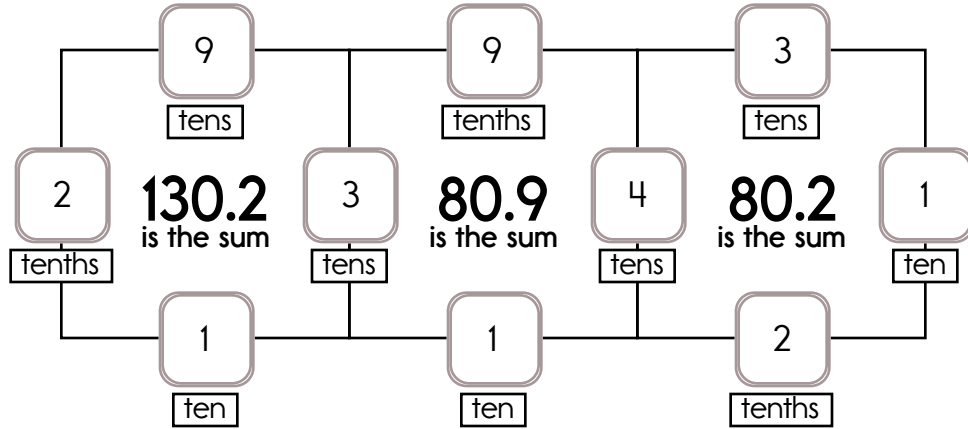
Example:

$$0.2 + 30 + 90 + 10 = 130.2$$

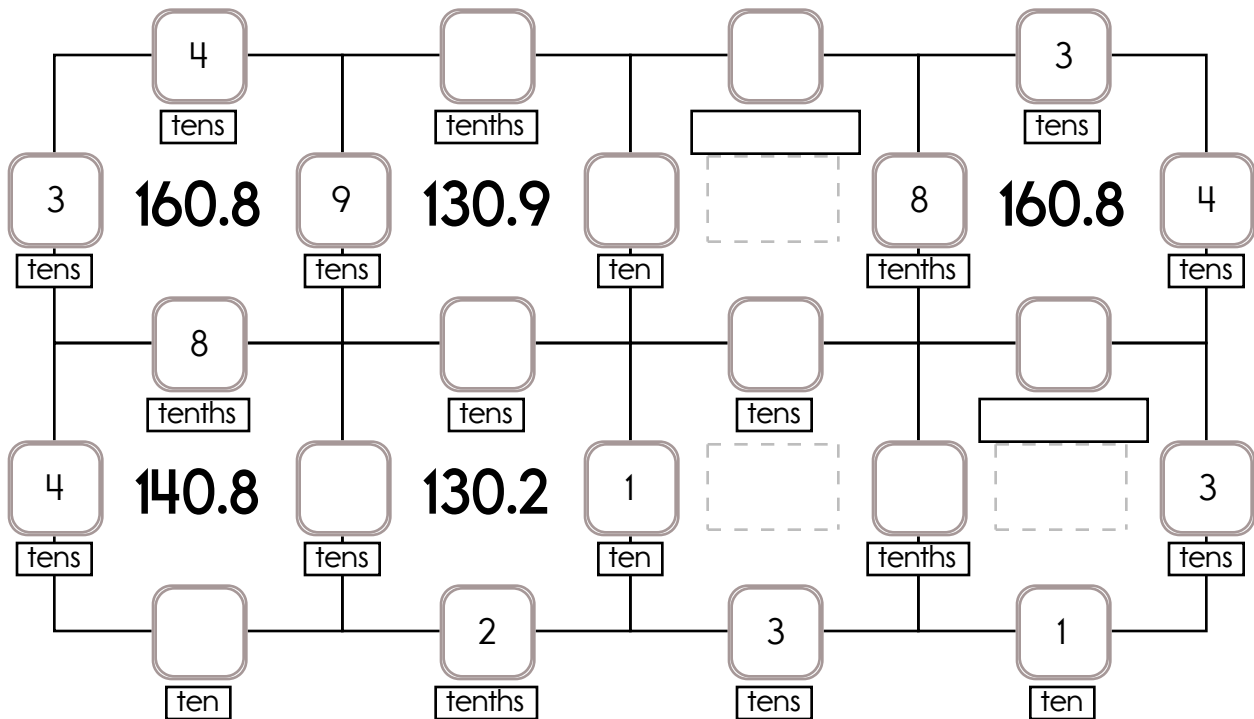
Example:

$$40 + 10 + 30 + 0.2 = 80.2$$

Sample:



Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: 2 tenths, 9 tenths, or 8 tenths. The other three numbers have to all be DIFFERENT and must be from these: 9 tens, 3 tens, 1 ten, or 4 tens.



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: 6 tenths, 8 tenths, or 2 tenths. The other three numbers have to all be DIFFERENT and must be from these: 7 tens, 2 tens, 8 tens, or 9 tens.

	7 tens					
8 tenths	240.8	8 tens	240.8		240.6	9 tens
	9 tens			8 tens		
	190.8		180.6		240.8	
						2 tenths
2 tenths	190.2		180.6		190.8	
	190.6		240.8			

How many feet are in 9 yards?

feet

$$63 \div 9 =$$



Name: _____

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

A, F, K, P, U, ____

____, J, O, T, ____

What is the rule for each pattern?

48, 53, 42, 50, 36, 47, 30, 44, 24, 41, 18, 38, _____

3, 2, 19, 16, 35, 30, 51, 44, 67, 58, 83, 72, 99, _____

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

2, 2, 9, 9, 9, 2, 2, 9, 9, 9, 9, 2, 2, 9,

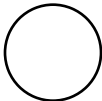
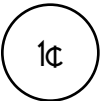
9, 9, 9, 9, 2, 2, 9, 9, 9, 9, 9, ____, ____, ____

Name: _____

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

Maria has \$69.11. She has 10 bills and 2 coins. How?

		\$1		

Robert has \$50.11. He has 5 bills and 11 coins. How?

Sarah has \$62.18. She has 7 bills and 18 coins. How?

9 kg = _____ g



Name: _____

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

Make \$52.26 any way you want!

Make \$41.23 any way you want!

Make \$24.56 any way you want!

Make \$17.16 any way you want!

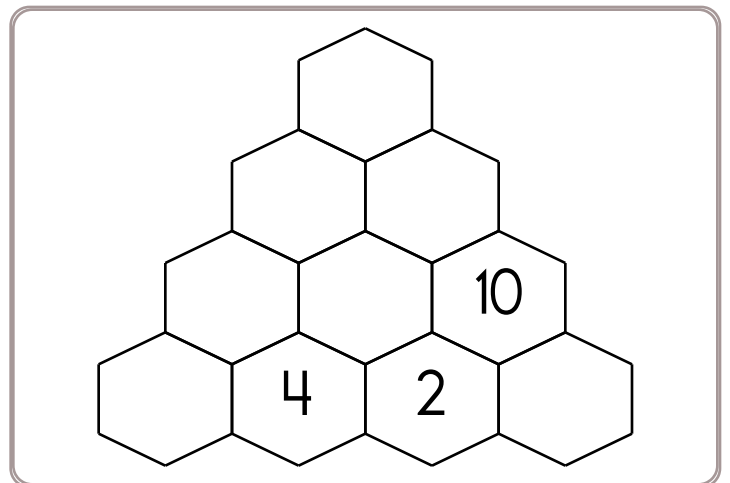
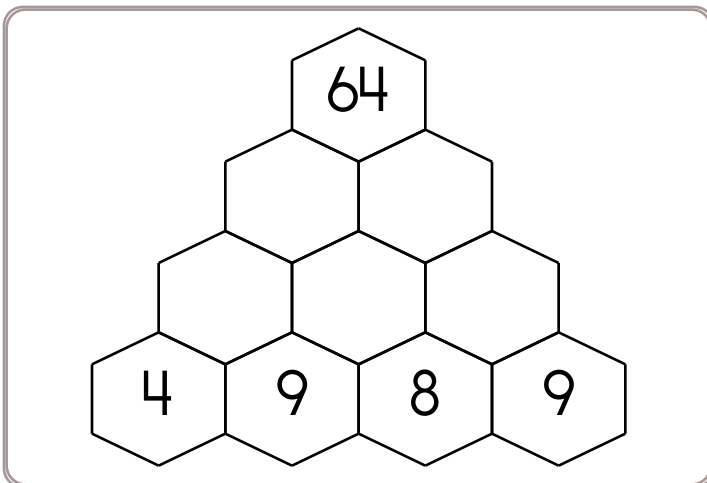
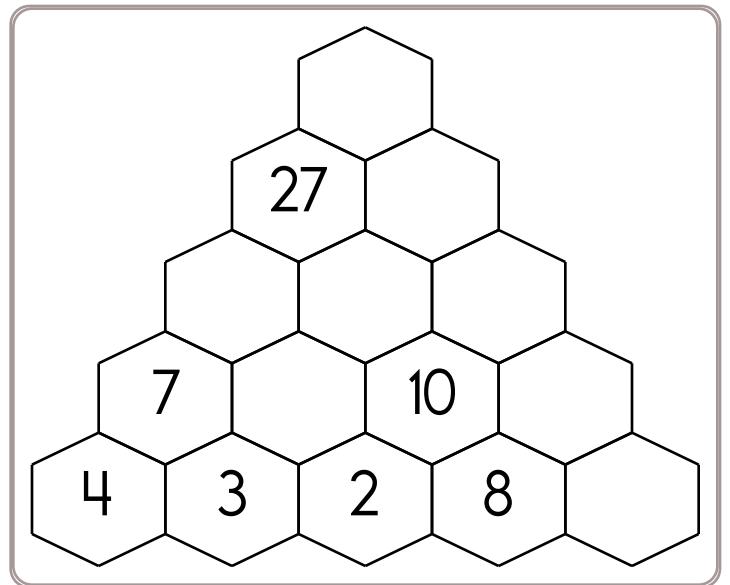
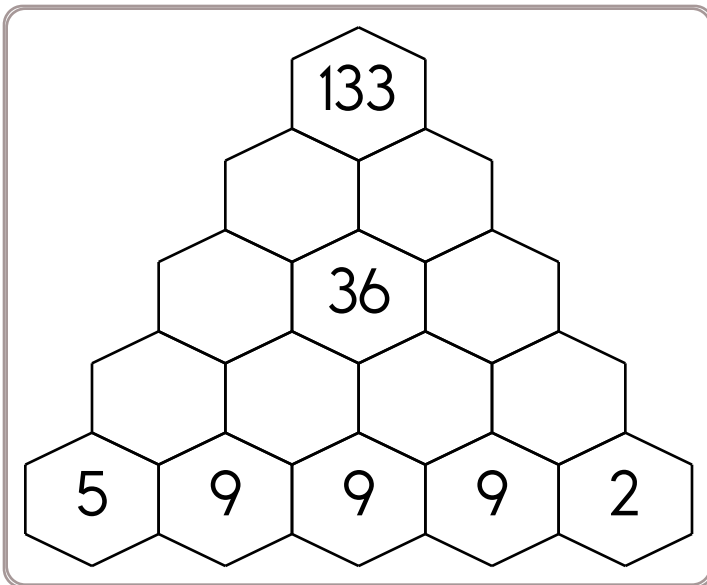
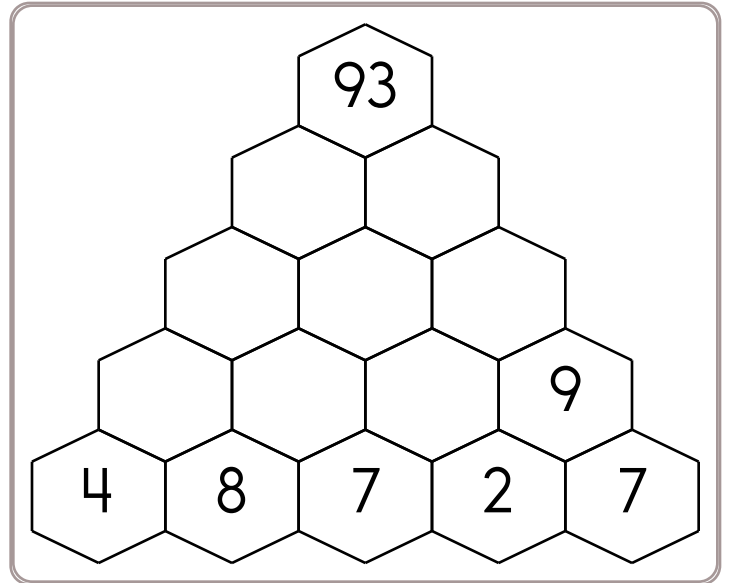
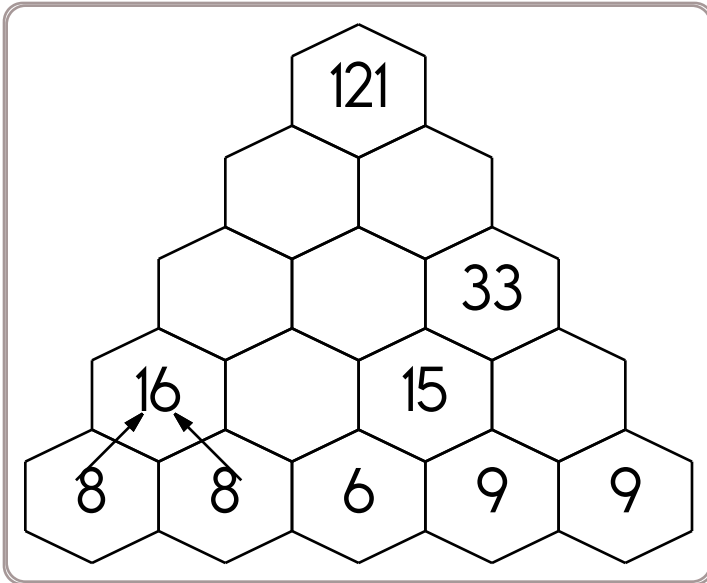
$$72,955 - 52,496 = \underline{\hspace{2cm}}$$

Three fancy pens cost \$6. At that rate, what is the cost of 12 fancy pens?



Name: _____

Fill in the blanks by adding the two numbers below each hexagon.



Name: _____

The cost of a grocery cart at Manufacturer's Warehouse is \$130 without a child seat and \$175 with a child seat. What is the ratio of the cost without a child seat to the cost with a child seat? Express your answer as a fraction in lowest terms.

Megan made a cake for Parent's Day for her mother and father. She used $2\frac{3}{4}$ cups of flour, $\frac{1}{2}$ of a cup of sugar, $\frac{1}{3}$ of a cup of cocoa, and $\frac{1}{3}$ of a teaspoon of cinnamon. What is the total quantity of dry ingredients Megan used in her cake?

Holly rode her bike for 30 minutes. She went 4.9 miles. What is her speed in miles per hour?

Estimate quickly the difference.
 $5,650 - 2,500$

59, 74, 89, 104, 119,
_____, 149, 164, 179, 194

Know how many inches in a foot? Okay, smarty pants, how many inches in 5 feet?

Name: _____

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

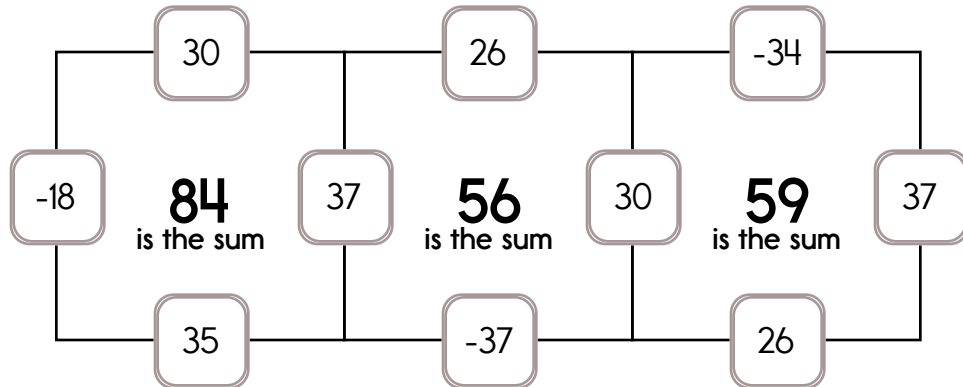
Example:

$$(-18) + 37 + 30 + 35 = 84$$

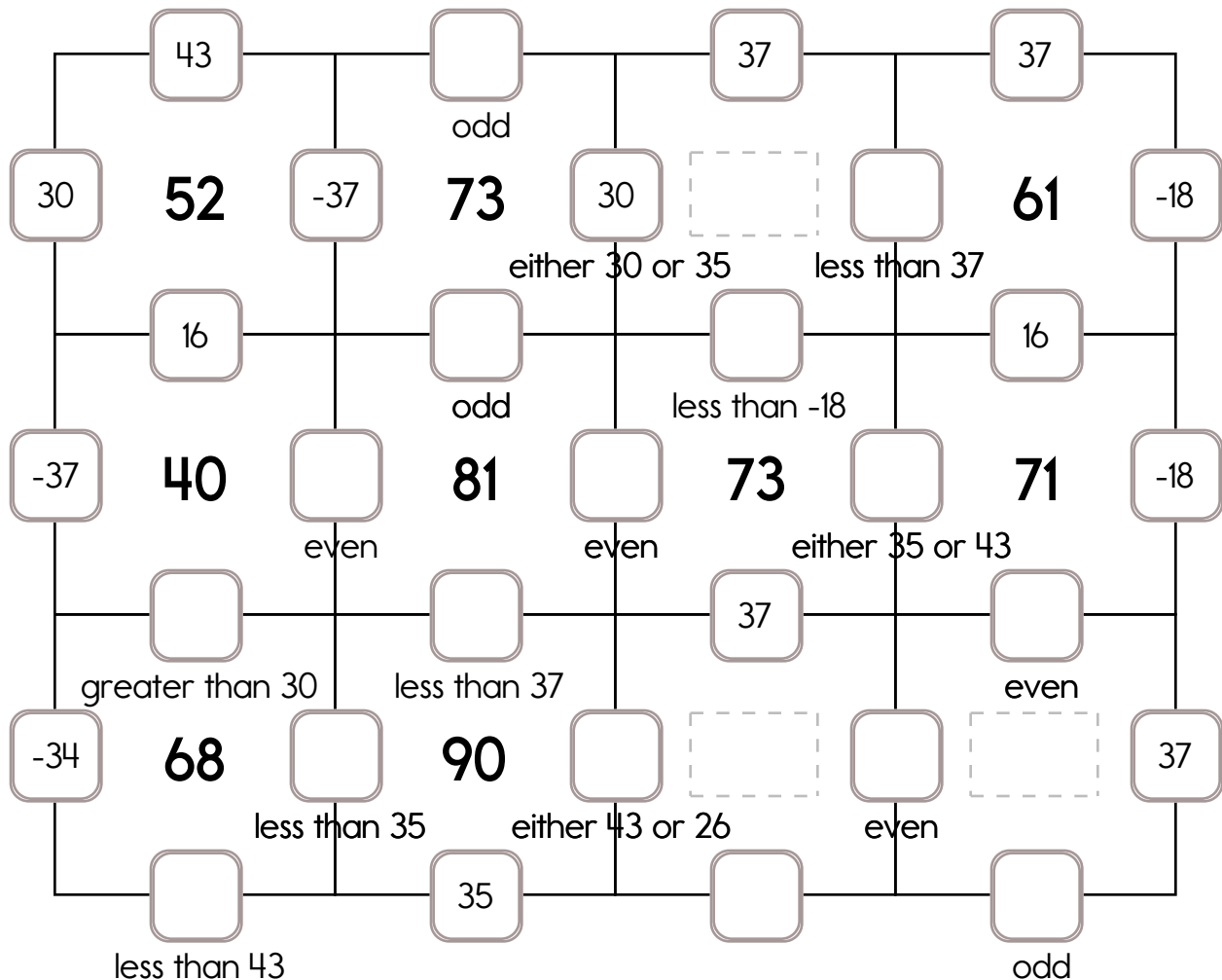
Example:

$$30 + 37 + (-34) + 26 = 59$$

Sample:



Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: -37, -18, or -34. The other three numbers have to all be **DIFFERENT** and must be from these: 30, 26, 37, 16, 35, or 43.



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: -41, -14, or -31.

The other three numbers have to all be DIFFERENT and must be from these: 44, 39, 14, 43, 34, or 30.

	44		34			30	
				odd			
43	90	-31	77	30	52		69
						less than 43	
	34		44				
			even			less than 39	
	47		57		37		55
							43
either -31 or -14		either 44 or 14	greater than 14				
		less than 39	greater than -41	even		greater than 14	
	76		82			102	
greater than 30		even	odd		even		odd
		odd		greater than 14		less than 39	
	50		77		56		102
either 43 or 44		greater than 14	odd				greater than -31
		either 43 or 14		even		odd	
	82		90				
less than 44		either 43 or 44	odd		odd		even
			even				

Name: _____

Pay the bill!

David received a bill for his cellphone from Mobile Unlimited for \$60.74. Write the check as David would write it.

DAVID

1173

DATE _____

PAY TO THE
ORDER OF _____\$

DOLLARS

MEMO _____

⑆9960808⑆

⑈42597⑈

⑆⑆73

Pay the bill!

David needs money. He wants to get \$200 in cash, so he writes a check payable to cash in this amount. Write this check.

DAVID

1174

DATE _____

PAY TO THE
ORDER OF _____\$

DOLLARS

MEMO _____

⑆9960808⑆

⑈42597⑈

⑆⑆74

What is the greatest common factor of 6 and 3?

What is the least common multiple of 4 and 8?

$$12 + y = 44$$

$17 - t + 9 = 14$
What is the value of t ?

Each side of a regular pentagon is 37.7 centimeters. What is the perimeter?

$$7 + 60 \div 6 - 45 \div 5 =$$

Name: _____

How many growls are equal to 18 screeches?

$$18 \text{ screeches} = 15 \text{ chuckles}$$

$$45 \text{ chuckles} = 27 \text{ barks}$$

$$3 \text{ barks} = 1 \text{ growl}$$

Erin was curious about what day will be her teacher's birthday. Today is Tuesday, and it is the 99th day of school.

"My birthday will be celebrated in 34 school days. There are 5 days each week for school, and I counted 4 holidays when we will not have school. Anyone know on what day of the week will be my birthday?" asked Mr. Jones.

Emily has 65 cents. What fraction of a dollar is that? Be sure to simplify the fraction.

Name: _____

x	3	4	5	6	7	8	9	10
4							36	
7				42				
8					56			
5	15							
3			15					
10						80		

$$\begin{array}{r} 58 \\ - 32 \\ \hline \end{array}$$

$$84 \div 12 = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 306 \\ + 473 \\ \hline \end{array}$$

$$\begin{array}{r} 656 \\ - 110 \\ \hline \end{array}$$



The number 4778 is a palindrome. Any number which reads the same in both directions is a palindrome number.

Sarah is thinking of a palindrome number. The number is less than 600,000. The digits, 254, are a part of the number in this exact order. The number is greater than 500,000. The sum of the first three digits in the number is 11. The number has 6 digits. What is her number?

Fill in the missing operations to complete this equation:

$$28 \quad \underline{\hspace{1cm}} \quad 14 \quad \underline{\hspace{1cm}} \quad 8 = 10$$

$$5,922 - 5,217 = \underline{\hspace{2cm}}$$

Name: _____

Find the missing numbers. These both have the same rule. What is the rule?

If

$1, 1 = 1$

$2, 2 = 4$

$3, 3 = 9$

$4, 4 = 16$

Then

$6, 6 = ?$

Hint: The answer is NOT 25.

If

$6, 6 = 36$

$7, 7 = 49$

$8, 8 = 64$

$9, 9 = 81$

Then

$14, 14 = ?$

Complete each pattern. Write what the rule is.

15	30	45
60		90
105		135

Name: _____

$44 \frac{5}{6}$	-7		$+\frac{2}{4}$		$+9 \frac{3}{6}$		$-\frac{2}{3}$		-1
	-19		+52		$-\frac{5}{6}$		-44		$+4 \frac{2}{3}$
+33									
$+\frac{1}{4}$									
	$-\frac{2}{6}$	$112 \frac{11}{12}$	+15		-26		$+5 \frac{1}{3}$		

$55 \frac{2}{4}$	$+\frac{2}{3}$		$-7 \frac{1}{9}$			$+3 \frac{3}{4}$		$-\frac{3}{4}$
				+56		$+\frac{2}{9}$		
	-8		+37			$119 \frac{7}{18}$		$+2 \frac{2}{3}$
$-\frac{1}{3}$						-1	+54	
					+13	$146 \frac{13}{18}$	$+\frac{6}{9}$	

Name: _____

Kevin made a display for the school library. It was about recycling. He used three sheets of poster board for the display. He bought the poster board at Fred's Art Supplies. It cost \$3.20 for the three sheets. He gave the clerk \$5. How much change did he get?

Peter and his father went to King Frog's Barbeque Shack. Peter had a barbequed pork sandwich, french fries, and a small drink for \$5.67. His father had a barbequed beef sandwich, a baked sweet potato, and a cup of coffee for \$7.38. How much did their lunches cost in all?

Connor made a chain from black and orange construction paper. The first loop was orange, the next loop was black, the next loop was orange, and so on. He used thirty-eight loops in his chain. If he glued a pumpkin to each black loop, how many pumpkins did he use?

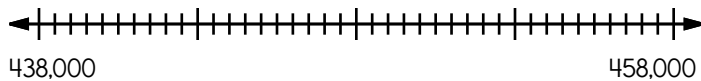
What is the range of these numbers?

22, 24, 18, 22, 15, 17, 22

Write the prefix or suffix of the word helpless.

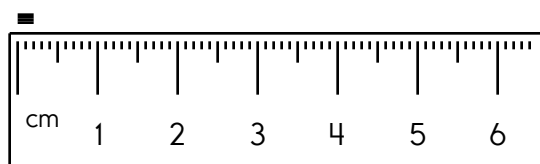
$$\begin{array}{r} 10 \\ \times 3 \\ \hline \end{array}$$

Locate where to put the number 452,000 and label the point B.



Do parallel lines intersect?

Write the length in centimeters.



$$\begin{array}{r} 89 \\ - 78 \\ \hline \end{array}$$

Calculate the sum of 24, 21, and 3.



Name: _____

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

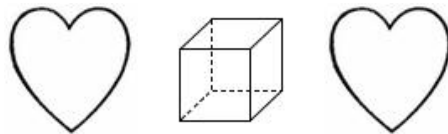
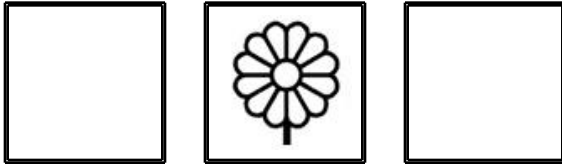


Draw 1 of these 3 pictures.
The picture IS in the correct spot.



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

Draw the 3 pictures in the correct order:

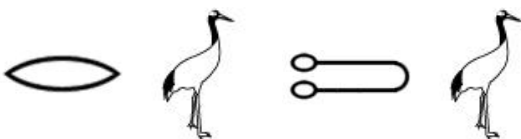


Draw 1 of these 3 pictures.
The picture is NOT in the correct spot.

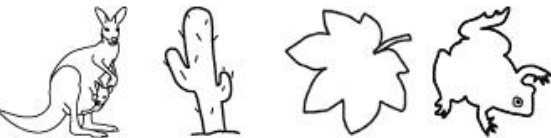


Draw 2 of these 3 pictures.
The pictures to use are in the correct spot.

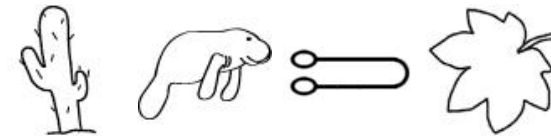
Draw 4 pictures in the correct order. Use each of the clues so you will know what to draw.



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

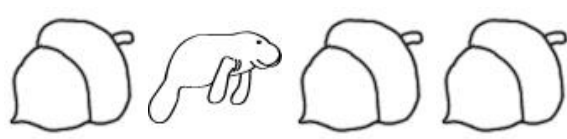
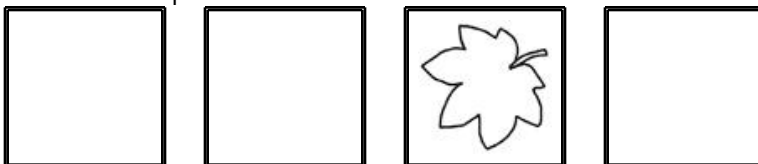


Draw 1 of these 4 pictures.
The picture IS in the correct spot.



Draw 1 of these 4 pictures.
The picture is NOT 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.

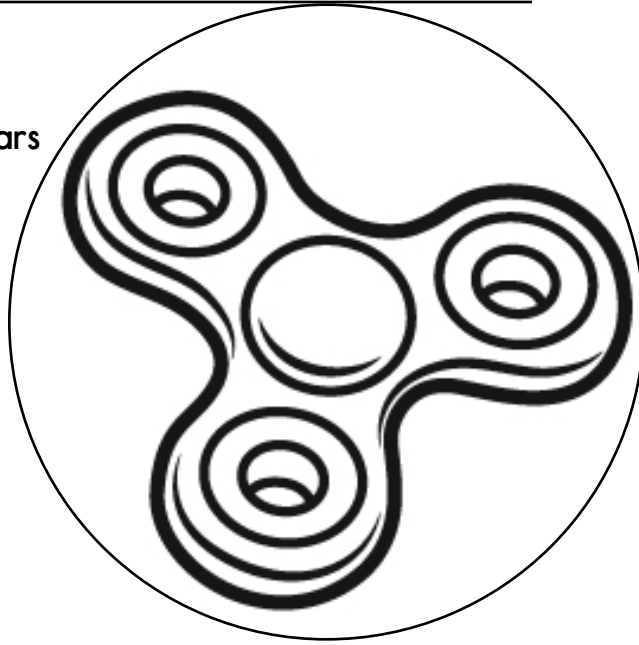


Draw 2 of these 4 pictures.
None of those pictures are in the correct spot.

Name: _____

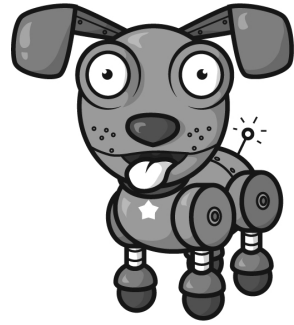
Directions:

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.

Dog's Age: $114 \frac{4}{12}$ Human Years: $16 \frac{1}{3}$ Dog's Age: $130 \frac{8}{12}$

Human Years: _____

Dog's Age: $86 \frac{11}{12}$

Human Years: _____

Dog's Age: $50 \frac{3}{4}$

Human Years: _____

Dog's Age: _____

Human Years: $9 \frac{3}{12}$ Dog's Age: $47 \frac{3}{12}$

Human Years: _____

Dog's Age: _____

Human Years: $1 \frac{1}{6}$

Dog's Age: _____

Human Years: $13 \frac{6}{12}$ Dog's Age: $79 \frac{4}{12}$

Human Years: _____

Dog's Age: $100 \frac{11}{12}$

Human Years: _____

Dog's Age: _____

Human Years: $10 \frac{1}{2}$

Dog's Age: _____

Human Years: $2 \frac{11}{12}$ Dog's Age: $124 \frac{10}{12}$

Human Years: _____

Dog's Age: _____

Human Years: $15 \frac{7}{12}$ Dog's Age: $57 \frac{1}{6}$

Human Years: _____

Dog's Age: $22 \frac{2}{12}$

Human Years: _____

Name: _____

		+		+		=	
+	C	A	C				32
-	?	C	C				30
=	B	A	A				31
	13	10	8				

Equations and Hints:

Each letter is a whole number.

Fill in the equations using the chart:

$$A + C - A = 10 \quad C + \underline{\quad} - A = 8 \quad \underline{\quad} + \underline{\quad} + \underline{\quad} = 32$$

$$\underline{\quad} + \underline{\quad} + \underline{\quad} = 31$$

Additional hints:

$$A < 22 \quad A = C + 2$$

Show Work:**Solve:**

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

Name: _____

$\frac{1}{3}$

$\frac{1}{4}$

$\frac{4}{6}$

$\frac{2}{7}$

$\frac{1}{2}$

$\frac{5}{8}$

$\frac{3}{5}$

Name two of the above numbers that have a difference of $\frac{1}{24}$.

Pam and Mary each have a soccer game at 8 a.m. on different fields. Pam's soccer field is 101 yards long. Mary's soccer field is 342 feet long. Which field is longer and by how much?

The radius of a circle is 568 cm. What is the diameter of this circle?

The perimeter of a rectangle is 16 cm. The longer side is 5 cm. How long is the shorter side?

80 divided by 10 equals

Name: _____

$$18 - \frac{7}{10} - \frac{3}{4} =$$

$$83 - \frac{2}{3} =$$

Reduce $\frac{36}{81}$ to its lowest terms.

Write the reciprocal.

$$\frac{18}{22}$$

Write the reciprocal.

$$16$$

$$9 + \frac{1}{3} - \frac{1}{2} =$$

Write the reciprocal.

$$\frac{3}{4}$$

$$5 + \frac{1}{2} + \frac{1}{12} =$$

Reduce $\frac{42}{91}$ to its lowest terms.

$$\frac{3}{6} \times 19 =$$

$$\frac{2}{3} \div \frac{7}{10} =$$

Find the least common denominator.

$$\frac{8}{72}, \frac{10}{45} \text{ and } \frac{12}{27}$$

Write the reciprocal.

$$13$$

$$13 - \frac{1}{2} =$$

Reduce $\frac{15}{30}$ to its lowest terms.

Name: _____

Fill in the missing numbers.

Only rule - The same number CAN NOT be next to each other, in ANY direction.

Dark lines surround a block. Numbers to use in a block:

A block with 1 space has to be the number 1.

A block with 2 spaces must have the numbers 1 and 2.

A block with 3 spaces must have the numbers 1, 2, and 3.

A block with 4 spaces must have the numbers 1, 2, 3, and 4.

1	2	1	2	3	4	1	2
3	4	3	4				
1	2	1	2	3	4	1	2

An entire block with 4 spaces is blank. Since the block is 4 spaces it uses the numbers 1-4.

2 4 1 3

			3	2	4	1
1		2	4	1	3	2
2	3	1	3	2	4	1
1	4	2	4	1	3	2

An entire block with 4 spaces is blank. Since the block is 4 spaces it uses the numbers 1-4.

1 4 2 3

	2	3	2	1	2	
3				3		3
1	2	3		1	2	1

Hint - These numbers are missing:

4 1 4 4 2 1 1

	2		2	1		1
3	4	1			4	3
1			2	1	2	

Hint - These numbers are missing:

2 3 1 3 3 1 4 2



Name: _____

Fill in the missing numbers.

Only rule - The same number CAN NOT be next to each other, in ANY direction.

	1	2		2	
	4	3	4	3	4
2	1		1		1
4	3	4			
1		1	2	1	2

Hint - These numbers are missing:

1 2 3 4 3
2 2 2 3 1

	2		2	1	2
3		3		3	4
1			2		2
4		4		4	
2				2	

Hint - These numbers are missing:

3 4 1 1 1 1 1
4 2 2 1 3 3 1

	3	2	3		3
	4		4	2	
	3				3
2	4	1	4		4

Hint - These numbers are missing:

2 3 4 1 1
1 1 2 2 1

2		2			4
1	4		3	1	
2		2	4		4
1	4			1	

Hint - These numbers are missing:

1 3 3 3 3
3 2 2 1 4

Name: _____

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

6.2

6.9

-3.4

-3.5

$$4 + 4 \cdot 6 + 12$$

In what quadrant would you find the point (12, -7)?

What is the value of g?

$$9g + 18 - 3g = -4$$

What is the mode of the following number set?

66, 58, 57, 51, 63, 69, 55, 60,
54, 60, 72, 55, 56, 71, 62, 64

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

$$\frac{t}{4} + \frac{6}{8} = 1\frac{1}{4}$$

t =

Name: _____

$$\begin{array}{r} 20 \\ + 20 \\ \hline \end{array}$$

Find the difference
between 495 and 45.

$$\begin{array}{r} 4,734 \\ - 3,162 \\ \hline \end{array}$$

Find the sum of 10, 18, and
44.

Subtract 121 from 605.

$$\begin{array}{r} 48 \\ + 71 \\ \hline \end{array}$$

Multiply 29 and 8.

$$\begin{array}{r} 2,896 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ \times 59 \\ \hline \end{array}$$

$$12 \overline{) 1572}$$

Divide and write remainder.

$$19 \overline{) 6973}$$

Divide and write remainder.

$$9 \overline{) 288}$$

Name: _____

Sarah and Anna were in a tight race for student president with 38 votes cast. Sarah ended up winning but the ratio of votes she got compared to Anna was 9 to 10. It was close. By how many votes did Anna win?

$1\frac{4}{5}$

$2\frac{1}{2}$

$2\frac{1}{8}$

$2\frac{1}{5}$

$2\frac{2}{7}$

$2\frac{2}{3}$

$2\frac{1}{3}$

Name two of the above numbers that have a difference of $\frac{1}{6}$.

$-10 - 4 =$

$27 \div -9 =$

$-11 - 7 =$

Name: _____

Fill in the missing numbers.

$19 - (-5) = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} - (-2) = 22$

$\underline{\hspace{2cm}} + (-8) = 10$

$-16 - (-4) = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} - (-9) = -14$

$-21 + (\underline{\hspace{2cm}}) = -24$

$$\begin{array}{r} 2.1 \\ \times 9 \\ \hline \end{array}$$

Change $\frac{9}{20}$ to a decimal.Change $\frac{3}{4}$ to a decimal.

Rewrite in scientific notation.

220,600,000,000

What is the greatest common factor of the numbers 120 and 30?

$4 + 117 \div 9 - 96 \div 12 =$

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

$35 \div 5 =$



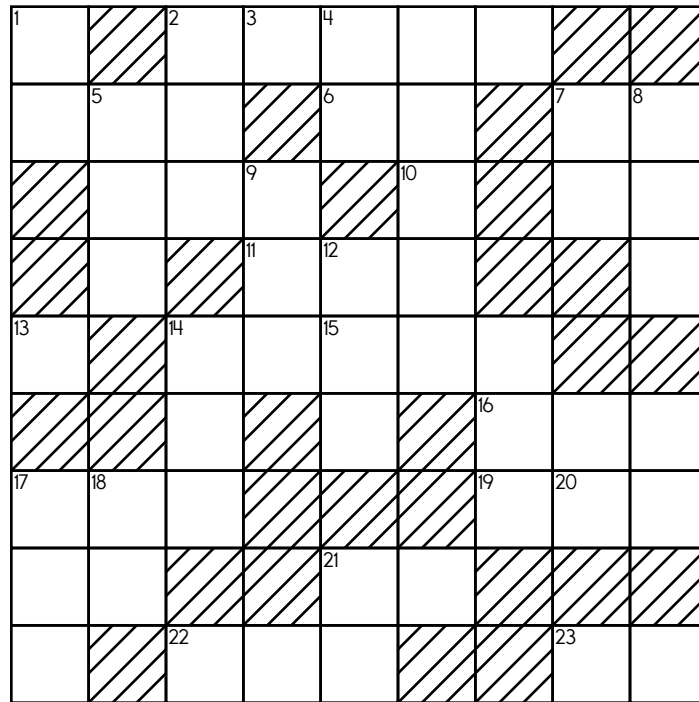
Name: _____

ACROSS

4. Seven more than 19-Across
 6. One-seventh of 12-Down
 10. One-fifth of 1-Down
 11. Four less than 15-Across
 15. 17-Across plus 14-Down
 16. Five times 6-Across
 17. One less than 12-Down
 19. Two less than 22-Across
 21. Two more than 7-Down
 22. One more than 14-Down
 23. One-third of 7-Down

DOWN

1. Two times 6-Across
 2. 14-Down plus 20-Down
 3. One-sixth of 18-Down
 5. Seven times 6-Across
 7. One-sixth of 11-Across
 8. 7-Down plus 12-Down
 9. Seven more than 17-Across
 12. **Nickels in seven dollars**
 13. Four more than 3-Down
 14. 12-Down plus 17-Across
 17. Six less than 12-Down
 18. 20-Down plus 23-Across
 20. $7 + 7 = 2 \times \underline{\hspace{1cm}}$



$$8t - 7.1 = 33.7$$

t =

$$8 \times 96 \div 8$$

Simplify.

$$\frac{18,000}{36,000} =$$

Name: _____

Four trains per day leave from Bigtown to go to Smallville. Some go nonstop, while others occasionally stop to pick up and drop off passengers along the way. The A train takes 2.2 hours to make the trip. The B train takes 2.3 hours. The C train takes 1.5 hours, and the D train takes 2.6 hours. What is the average speed of all the trains combined? The distance from Smallville to Bigtown is 144 miles. Round your answer to the nearest tenth.

Ava wants to replace the baseboards around the recreation room in her house. If the room is eleven and one-seventh feet by eight and three-fifths feet, and the material she is interested in using costs \$5.49 per foot, how much will it cost to buy the new baseboard material?

One group (A) contains 205 people. One-fifth of the people in group A will be selected to win free tickets to a concert. There is another group (B) in a nearby town that will receive the same number of tickets, but there are 485 people in that group. What will be the ratio of non-winners in group A to non-winners in group B after the selections are made?

Eric has a challenging training regimen. He trains for two hours every other day. Out of these two hours, he jogs for 12 minutes, stretches for 8 minutes, sprints for 4 minutes, rides a bicycle for 7 minutes, and lifts weights for 34 minutes. The remaining time he is resting. What fraction of his training time is spent resting?

If you have four books, how many different ways are there to stack these four books on a table?

If a dense plastic block is dropped into a tank of water, it experiences a change in velocity of -5 m/s. If the original velocity was 30 m/s, what was the velocity immediately after it hit the water?

Name: _____

In what quadrant would you find the point $(-8, 4)$?

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

$$0.6 (0.5 (0.6 + 2)) =$$

$$0.1 (0.5 (0.1 \times 7)) =$$

$$|64| \times |-54| =$$

$$19.7641 \times 10^4 =$$

$$|-7| - z = 10$$

$$z =$$

$$3 \times (66 \div 6) - 50 \div 5 =$$

$$7a - 20.7 = 28.3$$

$$a =$$

$$|-14| + c = 10$$

$$c =$$

If $m = 5$ and $h = -18$ then what is $5m - 11h - 3h = ?$

$$\frac{3}{12} \div \frac{22}{24} =$$

If $p = -4$ and $m = 19$ then what is $4p + 12m + 2m = ?$

Simplify.

$$\frac{30}{40} =$$

What is the value of a ?

$$4a + 15 - 6a = -9$$

Name: _____

Brian and his friends Austin, Jordan, and Nicholas went to the pizza store and bought three whole pizzas. Each pie had nine slices. Figure out how many slices each person ate. Eight slices were not eaten. They ate $\frac{1}{9}$ of a pie, $\frac{5}{9}$ of a pie, $\frac{2}{3}$ of a pie, or $\frac{7}{9}$ of a pie.

1. Austin was the one that ate $\frac{2}{3}$ of a pie, which was one more slice than Jordan and one less slice than Nicholas.
2. Jordan had more pizza than Brian.
3. Nicholas was the one that ate $\frac{7}{9}$ of a pie.

















Brian ate _____ slice(s).

Jordan ate _____ slice(s).

Austin ate _____ slice(s).

Nicholas ate _____ slice(s).

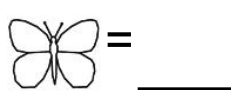
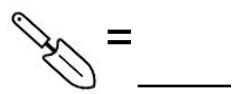
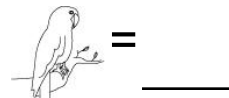
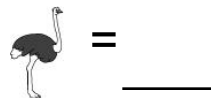
Puzzle:

				256
				144
				2,016
				1,152
112	512	768	1,944	X

Work Area:

				256
				144
				2,016
				1,152
112	512	768	1,944	X

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



Name: _____

Cross off the number that does NOT belong.

7, 6, 3, 16, 18, 25, 44, 85, 154, 283, 522, 959, 1764, 3245

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong.

42, 47, 52, 58, 64, 71, 78, 86, 94, 103, 112, 122, 132, 143, 149, 154, 166

Why does _____ not belong in the pattern?

Name: _____

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

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

Change to a percent.
0.04

Write the ratio as a
fraction in lowest terms.
50 quarters to 33 dimes

Change to a percent.

$$\frac{22}{10}$$

$$724 - 215 = \underline{\hspace{2cm}}$$



Name: _____

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

6, 48, 55, 440, 447, 3576, _____, _____, _____

4, 32, 39, 312, 319, 2552, 2559, _____, _____, _____

7, _____, _____, _____, _____, _____, 4088

Complete each pattern. Write what the rule is for each pattern.

 $\frac{1}{125}$, $\frac{1}{25}$, $\frac{1}{5}$, (1) , (5) ,

(25) , (125) , (625) ,

(3,125) , _____

 $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$,

(1) , (2) ,

(4) , _____ , _____

Name: _____

Complete each pattern.

____, ____, E, 7, 9, 4, E, 7, 9, 4, E, 7, 9, 4, E

9, 7, 3, ____, 7, 3, 9, 7, 3, 9, 7, 3, 9

4, 9, W, 5, 4, 9, W, 5, 4, 9, W, 5, 4, 9, W, ____, ____

What is the rule for each pattern?

33, 48, 48, 53, 63, 58, 78, ____, ____, 68, 108, 73, 123

3, 8, 9, 12, 15, 16, 21, 20, 27, ____, ____, 28, 39

Name: _____

Nicole, Cody, Emily, and Caleb each completed their homework. One took fifty-seven minutes, one took ninety-eight minutes, one took ninety-one minutes, and one took forty-five minutes to complete their homework.

How long did each person take to finish his or her homework?

1. Nicole started on the assignment at 4:47 p.m. Nicole took a forty-five minute break at 5:56 p.m. to eat dinner. Nicole continued working after dinner and finished the assignment at 7:10 p.m.
2. Cody started working at 3:42. Caleb started working nineteen minutes after Cody and finished at 4:46.
3. Emily needed more than an hour to finish.
4. Caleb needed less time than Emily to finish.

Nicole took _____ to finish.

Cody took _____ to finish.

Emily took _____ to finish.

Caleb took _____ to finish.

Reduce $\frac{8}{28}$ to its lowest terms.

$$15 + \frac{3}{11} - \frac{1}{5} =$$

$$17 + \frac{2}{5} + \frac{1}{2} =$$

$$|-7| + s = 12$$

$$s =$$

$$(15 + 14 + 6 + 5) =$$

$$8 \times 8 \times 8 = Z^y$$

What is the value of Z and y?

word root **custom** can mean **manner**

customer, customary

Name: _____

Cross off the number that does NOT belong.

16, 32, 40, 48, 64, 80, 96, 112, 128, 144, 160

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong.

21373, 13732, 37321, 73213, 32137, 21373, 13732, 37321,
73213, 32137, 21373, 21373, 13732, 37321, 73213

Why does _____ not belong in the pattern?

Name: _____

There are five objects (a violet object, a green object, a gray object, a red object, and a black object). Each object has a different mass (33 g, 59 g, 29 g, 44 g, and 24 g) and a different volume (10 cubic cm, 31 cubic cm, 43 cubic cm, 58 cubic cm, and 48 cubic cm).

Density = Mass / Volume

Figure out the mass, volume, and density of each object.

1. The density of water is 1.0 grams per cubic cm. If the violet object was placed in water, it would float.
2. The green object has a greater mass than the black object.
3. The density of water is 1.0 grams per cubic cm. If the gray object was placed in water, it would sink.
4. The red object has a volume of 43 cubic cm and a mass of 59 g.
5. One object has a volume of 48 cubic cm and a density of 0.5 grams per cubic cm.
6. The black object has a volume of 10 cubic cm and a density of 2.9 grams per cubic cm.
7. One object has a volume of 31 cubic cm and a density of 1.065 grams per cubic cm.
8. The density of aluminum is 2.7 grams per cubic cm. The black object is more dense than aluminum.
9. One object has a volume of 10 cubic cm and a density of 2.9 grams per cubic cm.
10. The volume of the green object is not 48 cubic cm and it is also not 31 cubic cm.

violet object has a mass of _____, a volume of _____, and a density of _____.

green object has a mass of _____, a volume of _____, and a density of _____.

gray object has a mass of _____, a volume of _____, and a density of _____.

red object has a mass of _____, a volume of _____, and a density of _____.

black object has a mass of _____, a volume of _____, and a density of _____.

Simplify.

$$\frac{16}{48} =$$

If $a = 5$ and $b = 52.8$,
then
 $3a + 52.8 - a =$

$t - 9 + t = 35$
What is the value of t ?

[illegible]

			$1\frac{6}{9}$
		$7\frac{1}{12}$	2
	$14\frac{1}{3}$		

$99 \div 11 =$

For 5,448,964,070,043, write the digit that is in the ten thousands place.

$$36 \div 9 = \underline{\hspace{2cm}}$$



Name: _____

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

Make \$11.28 any way you want!

Make \$56.56 any way you want!

Make \$32.13 any way you want!

Make \$37.54 any way you want!

$$6 + 4 \cdot 3 + 8$$

$$60 \div 12 + 1$$

$$t - 13 + 13 = 16$$

What is the value of t?

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: 16.3, 22.5, or 25.5. The other three numbers have to all be DIFFERENT and must be from these: 4.1, 9.8, 5.5, 1.5, 8.4, 0.8, or 3.9.

A 10x10 grid logic puzzle. The grid contains numbers and conditions. Some cells are empty, and some are highlighted with dashed borders. The conditions are as follows:

- Row 1: 3.9, 8.4, 1.5, less than 9.8
- Row 2: 25.5, 40.7, 9.8, 44.8, 22.5, 37.7, 30.1
- Row 3: 1.5, either 22.5 or 4.1, 9.8, either 8.4 or 1.5
- Row 4: 33.3, 35.9, 34.6, 22.7, 4.1
- Row 5: less than 25.5, even, less than 9.8
- Row 6: either 0.8 or 3.9, greater than 8.4, either 0.8 or 4.1
- Row 7: 16.3, 22.5, 41.7, 28.4
- Row 8: greater than 0.8, greater than 0.8, less than 22.5
- Row 9: odd, even, odd, less than 9.8
- Row 10: 40.3, 44.8, 41.6, 42.3
- Row 11: even, either 8.4 or 1.5, less than 16.3, odd, less than 22.5
- Row 12: odd, less than 25.5, either 0.8 or 8.4
- Row 13: 26.5, 33.4
- Row 14: greater than 1.5, greater than 1.5, odd, even
- Row 15: even, less than 5.5, greater than 1.5, even

Name: _____

Sarah got a summer job working on an app where people post pictures of their pets. This week they had 100,000 pictures posted. Of those pictures, 44% were dogs. How many pictures of dogs did they get this week?

Anne rode her bike for 45 minutes. She went 8.85 miles. What is her speed in miles per hour?

Which two of these numbers have a product of 5.929?

0.77

0.052

2.6

0.026

7.7

0.077

0.52

0.26

Name: _____

Mr. Allen wanted to go to his wife's office, but he forgot her office number. He knew that it was a number less than 116. It had 3 digits and it was a prime number. What are the possible office numbers for his wife?

In Hunter's class, 13 of the 20 students said they have been able to let it go when someone hurt them. What percentage of the students in Hunter's class hasn't been able to let it go when someone hurt them? Round your answer to the nearest hundredth.

Ms. Anderson purchased 2 $\frac{1}{3}$ pounds of frozen peas, $\frac{3}{4}$ pound of frozen corn, 1 $\frac{2}{3}$ pounds of frozen broccoli, and 1 $\frac{2}{5}$ pounds of frozen carrots. The vegetables were all on special for \$0.99 per pound. What was the total cost of the vegetables?

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

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

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

$$6 - \underline{\quad} = 5$$

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

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

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

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

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

$$6 - \underline{\quad} = 1$$

Name: _____

Find 2 equations hidden in each box. Good luck!

3
4
2
6 - 3
9 - 3
9 - 5
9 - 1 0

Write 2 equations: _____

1 x 1
1 x 4
5 x 3
5 x 5
64
63
4
21
9
36
45
6 x 4
8
7 x 3
40
6 x 2
6 x 3

Write 2 equations: _____

5252
1663
6745 + 501
7158
481 + 5129
5252 + 344
9560
8902 + 961
7653 + 196
7849
8916
5596
2805

Write 2 equations: _____

Name: _____

The sum of the ages of Brianna and Brittany is sixty-eight. Brittany is five times as old as Brianna was two years ago. How old is Brianna?

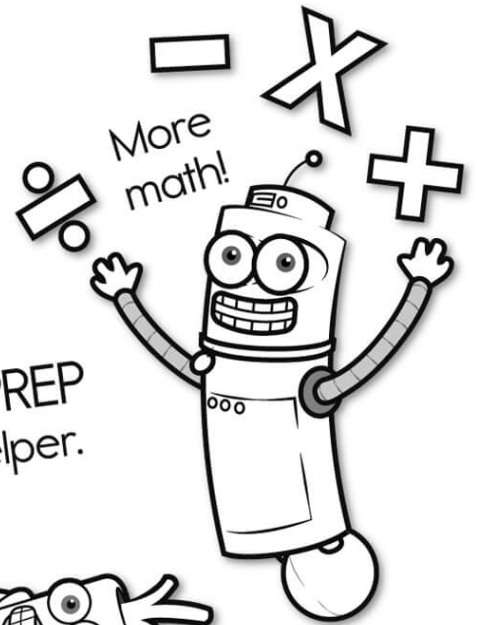
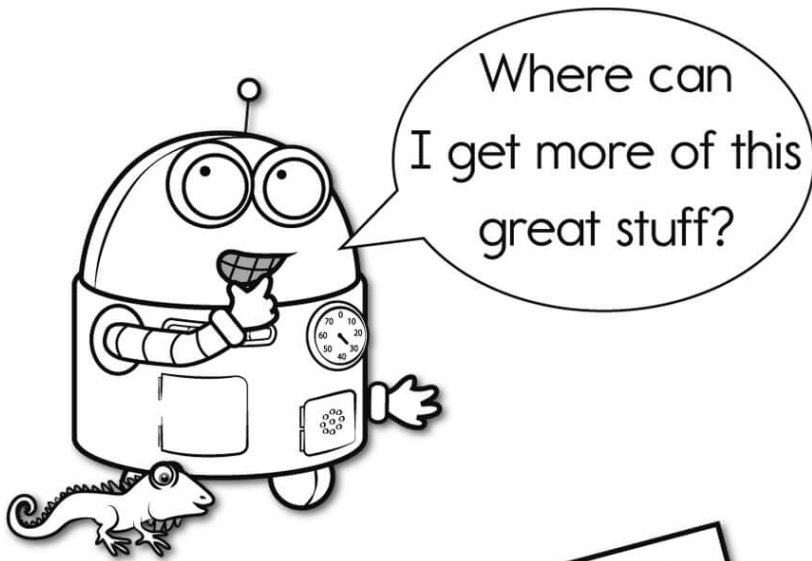
Jasmine and Natalie each played six games of bowling. Their total score was 1,472. Jasmine scored one hundred seventy-two points less than Natalie. What was Jasmine's average score per game?

The school soccer team sold raffle tickets for \$3.59 each. If someone bought three tickets, the team charged \$10. The team sold \$1,018.23 worth of 298 raffle tickets. How many tickets were sold at each price?

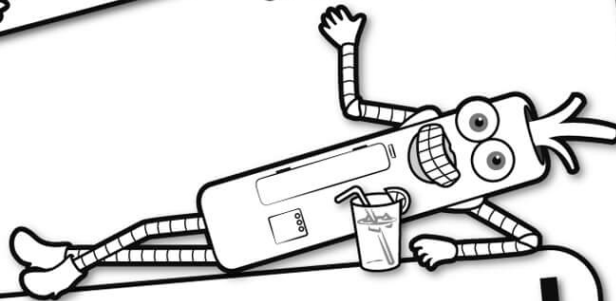
There are three consecutive even integers. Eleven times the sum of the second and third numbers is five hundred ninety-eight more than eight times the first number. What are the integers?

Jose's age is twice John's age six years ago. The sum of their ages is thirty-six. How old is John?

Sunday's game sold eight thousand, seven hundred fifty-one more than two times the number of tickets sold for the game on Tuesday. The total number of tickets sold for Sunday and Tuesday was 45,177. How many tickets were sold on Tuesday?



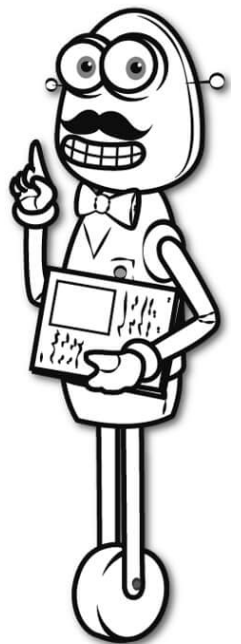
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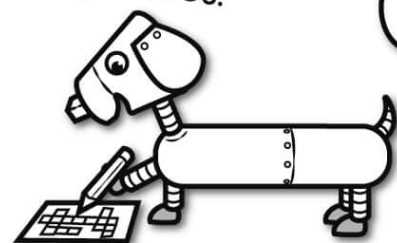
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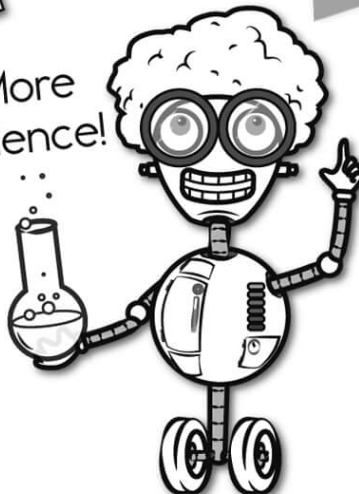
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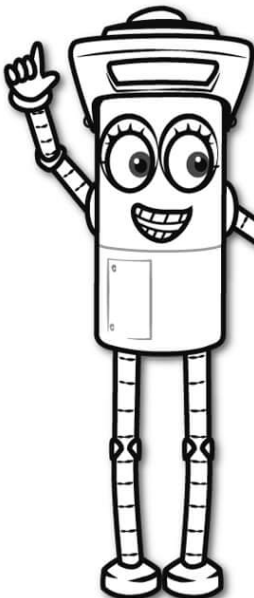
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