

Name: _____

The sum of two consecutive numbers is 271. What are the two numbers?

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

2 **5** **7** **8** **5** **5** **4**

The sum of these two 2-digit numbers is 137. Write the full equation.

I am a 2-digit number that is divisible by 2 and 7. If you add my digits together, the sum is 10. What number am I?

Name: _____

Gavin fell asleep and had a very strange dream. On the first day of his dream he was only 1-inch tall. Every day after that his height doubled. How tall was he at the end of the 14th day?

Mr. Jackson wrote down his daily black cow root beer float sales for the last week. He had sold 432 floats at \$2.25 each. The ingredients for the floats cost \$1.07 per float. How much profit did he make last week?

Maria can't wait for her friend to visit.

"As soon as you leave the airport, drive 30 miles to exit 5," says Maria.

"I don't think you mean miles. They use kilometers here," says Wendy.

Help Maria tell Wendy how many kilometers to drive. Use 1 mile = 1.6 kilometers.

The (make-believe) country of Slowmonia, after 18 years of research, launched a rocket into space to land on Pluto. It is slow! It travels 2.642 kilometers in a month. How far will it travel in 23 years?

Name: _____

Make a path by adding up the numbers. Do not visit a circle more than once. The first one is done.

START 1	9	6	7
8	5	9	3
3	6	5	3
7	7	4	FINISH SUM: 33

1 + 9 + 5 + 9 + 5 + 4 =
33

START 3	2	16	15
1	1	18	8
13	1	14	FINISH SUM: 31

3 + 1 + _____ + _____ + _____ =
31

START 9	9	8	6
6	6	6	7
8	6	9	9
7	8	7	FINISH SUM: 45

9 + 6 + _____ + _____ + _____ + _____ =
45

START 6	7	7	8
2	2	8	8
9	8	5	4
4	3	1	FINISH SUM: 40

Did you find a path? Write the equation.

Name: _____

<p>The boys in your class each were given a ticket with a number on it. The numbers given out were: 38, 9, 34, 35, 19, 28, and 22. One ticket will be picked from a hat. What are the chances that the winning ticket number is divisible by 3?</p>	$9 \times 3 = \underline{\hspace{2cm}}$	<p>Jenna rolls two dice. She adds the numbers on the two dice. What is the chance of this sum being six?</p>
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$\begin{array}{r} 26 \\ + 47 \\ \hline \end{array}$	$60 \div 12 = \underline{\hspace{2cm}}$	<p>Hannah told Jenna that she multiplied two consecutive whole numbers and the answer is 72. Jenna doesn't believe that is possible. She thinks Jenna must have multiplied wrong. Who is correct?</p>	$\begin{array}{r} 76 \\ - 65 \\ \hline \end{array}$
$\begin{array}{r} 531 \\ - 213 \\ \hline \end{array}$			

<p>Can 986 be evenly divided by 6? Circle: 986 is evenly divisible by 6 986 is NOT evenly divisible by 6</p>	<p>Anne rolls a die. What is the chance of her rolling a 5? _____</p>
	<p>1 lb = 16 oz 10 lb = _____ oz</p>

$2 \times 5 = \underline{\hspace{2cm}}$	$3 \times 2 = \underline{\hspace{2cm}}$
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Name: _____

Amy got a new soccer shirt.
 Can you guess the number
 on the back of her shirt?

It has two digits.
 The digits add up to 5.
 The larger digit is 1 more than
 the smaller digit.
 The number is even.

Write the missing family fact.

$$25 \times 11 = 275$$

$$275 \div 25 = 11$$

$$275 \div 11 = 25$$

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

$$\begin{array}{r} 434 \\ + 261 \\ \hline \end{array}$$

$$72 \div 8 = \underline{\hspace{2cm}}$$

Emily cannot open her locker.
 She knows that the three
 numbers are: 7, 25, and 36,
 but she cannot remember
 the order of the numbers.
 How many different
 combinations are there? List
 ten of them.

$$60 \div 6 =$$

$$50 \div 5 =$$

$$99 \div 11 = \underline{\hspace{2cm}}$$

Circle the addition property
 for $80 + 75 = 75 + 80$.

- commutative property
- associative property

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

$$3 \times 6 =$$

Name: _____

<p>Make a decimal number. Start with a zero and a decimal point. Then use these numbers: 6, 7, 2, 5, and 9. Make three different decimal numbers. Put your three decimal numbers in order from largest to smallest.</p>	$(4 + 9) + 9 =$
---	-----------------

$35 \div 5 =$ _____	In the number 84,715,730,972, the digit 0 is in what place? _____	$6 \times 12 =$ _____
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For 244,994,082, write the digit that is in the ten thousands place. _____	How many dimes make \$1.60?	$9 \times 2 =$ _____
---	-----------------------------	----------------------

Write the numbers 20 to 50 on a sheet of paper. How many of these numbers are divisible by 8? _____	Can 855 be evenly divided by 12? Circle: 855 is evenly divisible by 12 855 is NOT evenly divisible by 12
--	--

$9,966 - 9,727 =$ _____	$7 \times 12 =$
-------------------------	-----------------

$3 \times 4 =$ _____	Circle the digit in the tenths place. 47.6687	$8 \times 4 =$ _____
----------------------	--	----------------------

Name: _____

6 • x • 8 • 5 • x • 1 • 4 • 7 • 3 • = • 3 • 5 • 5 • 6 • 5 • 1
3 • 2 • x • ÷

Use the pieces above to help you fill in the runaway math puzzle.

The puzzle grid contains the following elements:

- Top row: 9, x, =, 5, 4
- Second row: x, 0
- Third row: 4, 9, =, 3, 6
- Fourth row: =, ÷, x, 7, =, 6
- Fifth row: 8, =, 5
- Sixth row: 4, ÷, =, 9, ÷, 3
- Seventh row: 3, 2
- Eighth row: x, 0, =, 0
- Ninth row: 2, 2
- Tenth row: =
- Eleventh row: 3, 0, ÷, =
- Twelfth row: x, ÷
- Thirteenth row: 1, 7, x, 5, =, 5
- Fourteenth row: 9, x, =, 1, 8, =
- Fifteenth row: 1, 0, 2, 1
- Sixteenth row: 8, 1, =, 8
- Seventeenth row: 1, 6, 3, ÷, 7, =, 9
- Eighteenth row: =
- Nineteenth row: 4

Circle the greatest number:

2,518 283,163,704
70,594 51,698,263

$4,329 + 4,541 = \underline{\hspace{2cm}}$

$2,941 + 2,843 = \underline{\hspace{2cm}}$

Name: _____

This week, from Sunday until Wednesday, the school drama team sold adult and student tickets to their play. The person in charge of selling the tickets kept a record of the number of adult and student tickets sold on each day. However, she forgot which day the tickets were actually sold. She knows how many adult tickets were sold (fifteen, five, thirteen, and eight tickets) and how many student tickets were sold (twenty-seven, thirty, eighteen, and twenty-one).

Figure out how many student and adult tickets were sold on each day.

1. On the day that fifteen adult tickets were sold, the sum of the student and adult tickets sold is a multiple of eleven.
2. The least common multiple of the number of adult seats sold on Sunday and Monday is fifteen.
3. A prime number of adult seats was sold on Wednesday.
4. An odd number of adult tickets and an odd number of student tickets were sold on Monday.
5. The greatest common factor of the number of student seats sold on Monday and Wednesday is three.
6. The greatest common factor of the number of student seats sold on Tuesday and Monday is three.
7. The student seats sold on Tuesday must be split up into groups that are all the same size.

If the minimum group size is three people and the maximum group size is nine people, then based on the number of tickets sold on Tuesday only three different group sizes were used.

On Sunday a total of _____ adult tickets and _____ student tickets were sold.

On Monday a total of _____ adult tickets and _____ student tickets were sold.

On Tuesday a total of _____ adult tickets and _____ student tickets were sold.

On Wednesday a total of _____ adult tickets and _____ student tickets were sold.

Name: _____

Add one set of parenthesis to each equation so that the equation is true.

$$(6 \div 2) \times 10 = 30$$

$$7 + (2 \times 4) = 15$$

$$11 - 7 + 1 = 5$$

$$11 - 7 + 1 = 3$$

$$10 \times 1 - 1 + 2 = 11$$

$$10 \times 1 - 1 + 2 = 7$$

$$11 + 2 \times 7 - 5 = 15$$

$$2 \times 3 \div 5 - 3 = 3$$

$$12 + 4 + 5 - 3 = 18$$

$$9 + 2 - 3 + 4 = 12$$

$$3 \times 10 + 5 + 7 = 42$$

$$5 \times 7 + 9 \div 9 = 36$$

$$6 \div 3 + 3 \times 9 = 9$$

$$11 - 11 + 2 \times 6 = 12$$

$$7 - 4 \times 4 + 6 = 18$$

$$10 + 11 - 10 \times 2 = 12$$

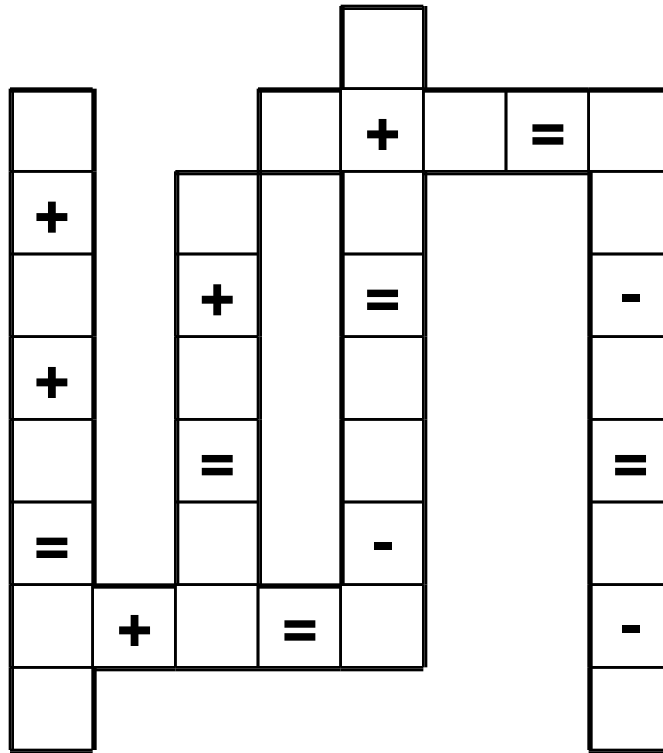
$$12 - 12 + 9 + 6 = 15$$

$$8 \times 9 \div 3 + 4 = 28$$

Name: _____

7 • 0 • 0 • 1 • 1 • 9 • 8 • 1 • 8 • 7 • 2 • 9 • 4 • 2 • 1 • 7 • 1
6 • 7 • 2 • 5

Use the pieces above to help you fill in the runaway math puzzle.



$$\frac{12}{?} = \frac{4}{5}$$

Write the ratio as a fraction in lowest terms.
10 girls to 2 boys

Write the ratio as a fraction in lowest terms.
14 dimes to 18 nickels

$$t - 5 + t = 27$$

What is the value of t?

$$19 - 14 + t = 16$$

What is the value of t?

$$9 + 9 \times 6 + 5$$

Name: _____

Fraction	Decimal
$\frac{6}{10}$	0.6
$\frac{33}{100}$	
	0.79
	0.09

Percentage	Fraction
85%	
25%	
	$\frac{35}{100}$
	$\frac{80}{100}$

Decimal	Percentage
0.8	
	95%
0.05	
0.42	
0.49	
	32%

Percentage	Fraction
40%	
	$\frac{15}{100}$
50%	
55%	

Write the decimal number for:
three ten-thousandths

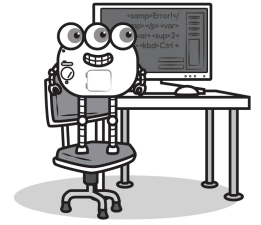
$$1,306 - 750 =$$

Reduce $\frac{10}{28}$ to its lowest terms.

Name: _____

Robot was given a math problem to solve.

Hunter went to lunch with his father. His father ate fried chicken. Hunter ate fried chicken, too. His father's lunch cost \$8.51. Hunter's lunch cost \$7.63. How much did their lunches cost in all?



Robot wrote this program in Python to solve it.

```
father_lunch_cost = 8.51
```

```
hunter_lunch_cost = 7.63
```

```
total_lunch_cost = father_lunch_cost + hunter_lunch_cost
```

```
print(total_lunch_cost)
```

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

What will the program print out?



Hints and Questions

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

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

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

Name: _____

$$z + z + z + z + z =$$

$$m + 6m =$$

$$7y + 3y =$$

$$6r - 4r =$$

$$9k - 5k + k =$$

$$5k + 11 - 7 + 10k - 5k =$$

If $k = 5$, then show what the result of the two equations above would be.

Did you get the same result for both equations?

$$4s + 13 - 7 + 10s - 1s =$$

If $s = 4$, then show what the result of the two equations above would be.

Did you get the same result for both equations?

The pencil factory was making boxes filled with pencils. They made seven large boxes, each with lots of pencils, but they forgot to label how many pencils are in each box. Jessica was in charge of the boxes. She wrote z on each box.

z	z	z	z	z	z	z
----------	----------	----------	----------	----------	----------	----------

If z represents the number of pencils in each box, then how many pencils are there altogether?

$$z + z + z + z + z + z + z = \underline{\hspace{2cm}}$$

Name: _____

Write algebraic expressions.

Multiply y by 13.

Then add 47,669 to the product.

This is how Amy coded your algebraic expression.

ans = y * 13

ans = ans + 47669

She named a variable "ans" to code the answer.

Did you know that coders use * for multiplication, / for division, + for addition, and - for subtraction in their code?

Write algebraic expressions.

Add 57 to m .

Then multiply the sum by 8.

Now that you wrote the algebraic expressions, try to write computer code to do the same. Use "ans" as a variable to save each result.

Write algebraic expressions.

Add $\frac{1}{7}$ to the product of 6 and k .

Divide r by 97, and then subtract 292 from the quotient.

Add 36,654 to the product of $6z$ and 9.

Write a description for each algebraic expression.

$(9k) - 20$

Multiply 9 by k . Then subtract 20 from the product.

$881 - r$

$\frac{m}{8}$

$(s + 5902) \times 7$

Name: _____

$$4 + r = 18$$

$$r =$$

$$m + 13 = 21$$

$$m =$$

The sum of 29 and y is 67.

What is the value of y ?

Write an algebraic expression to subtract 82 from z .

Compare each pair of numbers or expressions using $>$, $=$, or $<$.

$$48 \div 6 \quad \bigcirc \quad 6 \div 48$$

$$53 \quad \bigcirc \quad -56$$

$$132,251 \quad \bigcirc \quad 376,733$$

$$-23 \quad \bigcirc \quad -20$$

$$295.7 \quad \bigcirc \quad 865.45$$

$$15 - y = 9$$

$$y =$$

$$z - 6 = 10$$

$$z =$$

The sum of 22 and m is 54.

What is the value of m ?

Write an algebraic expression to subtract 54 from s .

What is $4k + 63$
when $k = 5$?

Simplify $4m + 8m$.

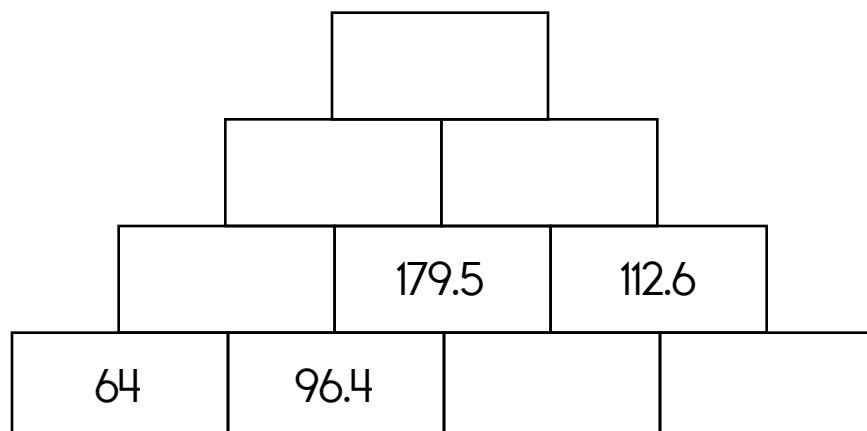
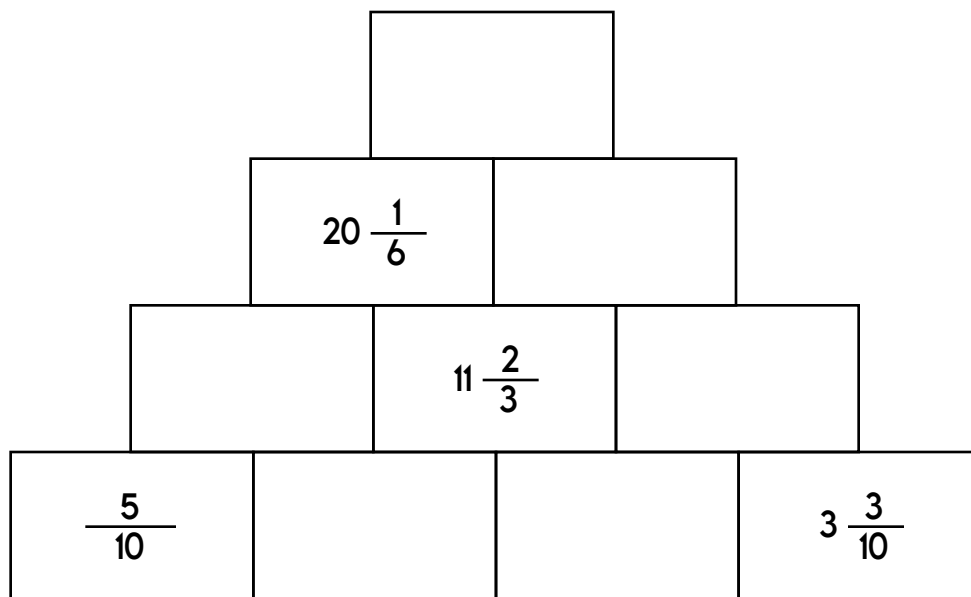
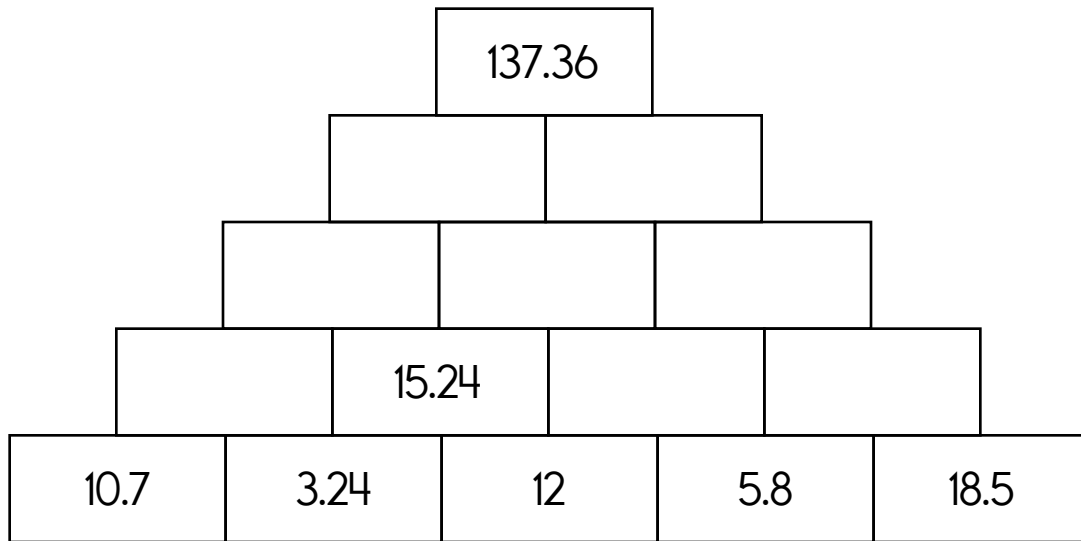
What is the value of the simplified equation
when $m = 2$?

Simplify $8r - 3r$.

What is the value of the simplified equation
when $r = 6$?

Name: _____

The block above is the sum of the two blocks below. Fill in the missing blocks.



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

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

1 2 3 4

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

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

4 3 1 2

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

Hint - These numbers are missing:

1 3 1 2 4 4 2 3

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

Hint - These numbers are missing:

2 4 1 2 4 2 2 1

What is the remainder of 21 divided by 4?

$$5 \times 5 \times 5 \times 5 = 5^x$$

What is the value of x?

$$0.5 (0.3 (0.5 + 3)) =$$

Name: _____

Fill in the missing numbers.

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

Hint - These numbers are missing:

4 1 1 2
3 4 4 3

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

Hint - These numbers are missing:

4 2 1 3 1 2
1 1 1 4 3

2	1	2	
3			4
	1	2	
	3	4	
1			2

Hint - These numbers are missing:

1 4 1 2 2
3 1 3 4

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

Hint - These numbers are missing:

3 1 3 3
2 4 1 4

Name: _____

	+		x	=	
	A	B	B		107
+	A	C	A		84
+	?	C	C		132
=					
	25	32	28		

Equations and Hints:

Each letter is a whole number.

Fill in the equations using the chart:

$$A + C \times A = 84 \quad A + \underline{\quad} \times B = 107$$

$$\underline{\quad} + \underline{\quad} + \underline{\quad} = 28 \quad \underline{\quad} + \underline{\quad} + \underline{\quad} = 32$$

Additional hints:

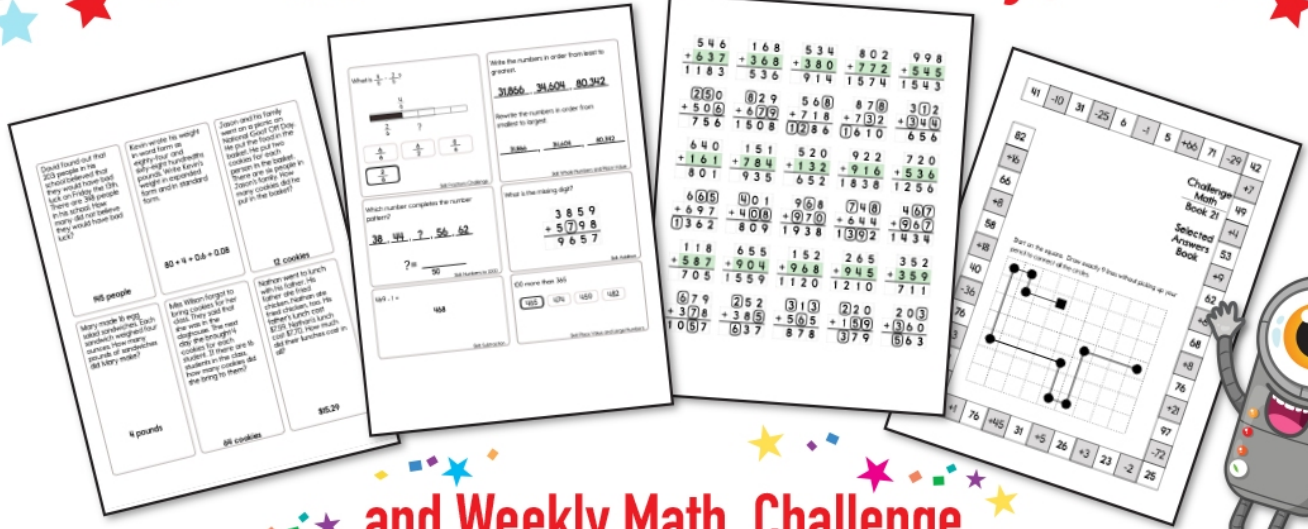
$$C > 5 \quad C = A + 4$$

Show Work:

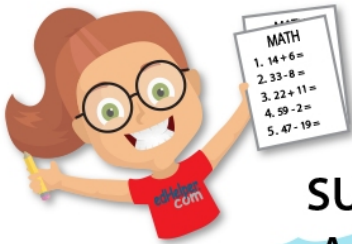
Solve:

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

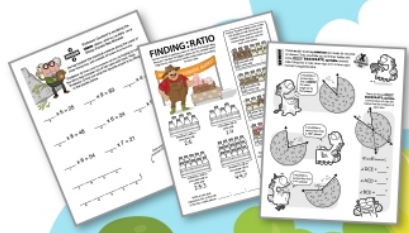
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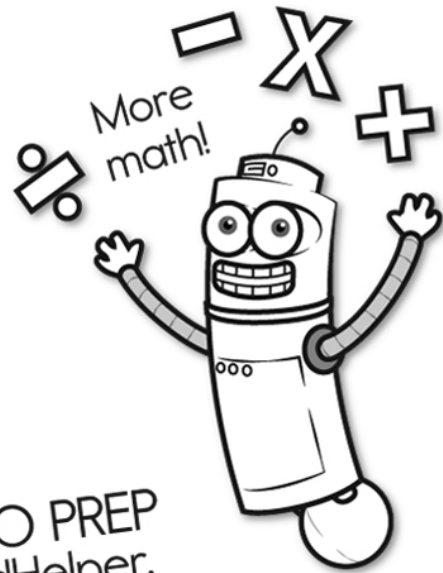
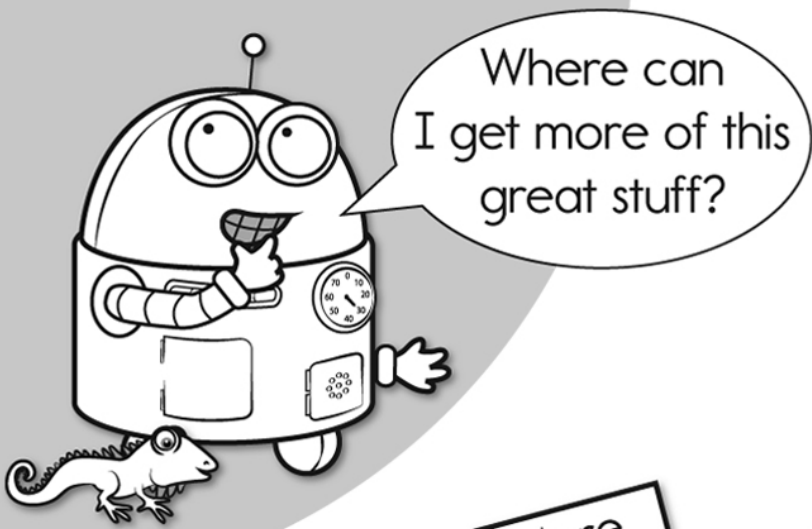
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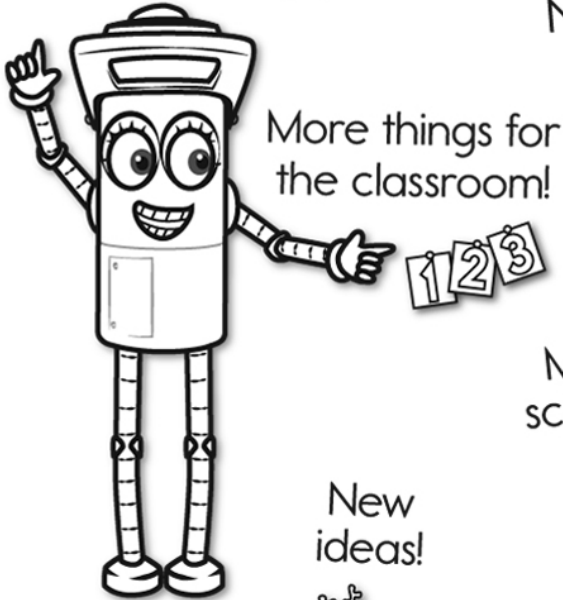
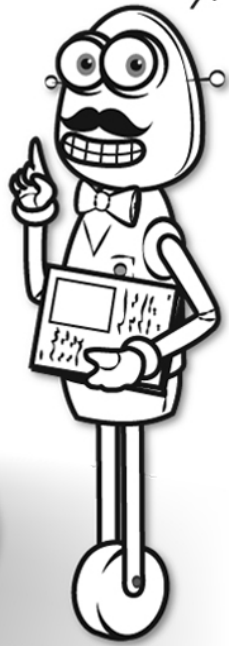
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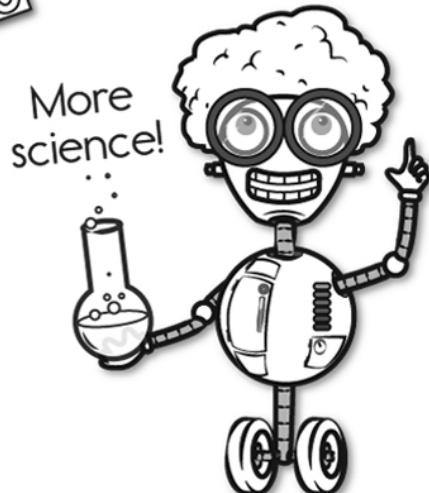


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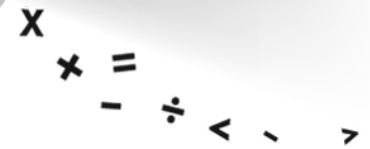
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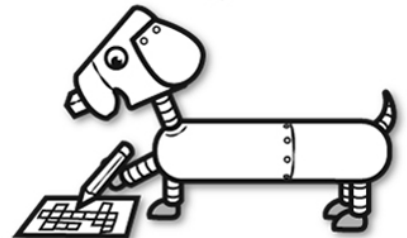
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