

Name: _____

Show the steps to solve $7(48 - 7 + 13) + 693 \times 11 - 69 \div 3$.

Step 1. Parentheses

Step 2. Exponents

Step 3. Multiplication & Division (or Division & Multiplication!)

Step 4. Addition & Subtraction (or Subtraction & Division!)

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

An angle measures 31° .
What would you call this angle?

Sketch an obtuse angle named $\angle GHI$.

The diameter of a circle is 1,274 cm. What is the radius of this circle?

It was 2 degrees below zero in the morning. By afternoon the temperature rose 23 degrees. How warm was it?

Write $\frac{2}{4}$ in lowest terms.

Amy rolls a die. What is the chance of her rolling a 2?

1 kg = 1,000 g

15 kg = _____ g

$11 \times 9 =$

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Pick the correct answer using brain power. No writing.

0.2×0.4 is what? 8 or 0.00008 or 0.08

0.19×0.7 is what? 0.133 or 1.33 or 0.000133

0.02×0.9 is what? 0.018 or 0.18 or 0.000018

1.5×0.9 is what? 0.0135 or 1350 or 1.35

A rectangle is 41 cm on one side and 9 cm on another side. What is the perimeter?

Round 98,444 to the nearest hundred.

How much money is 1 quarter, 7 dimes, 1 nickel, and 1 penny?

It was 5 degrees above zero in the morning. By afternoon the temperature rose 18 degrees. How warm was it?

Round 17,506 to the nearest thousand.

How many minutes is it from 7:00 a.m. to 11:35 a.m.?

$12 \times 9 =$ _____

25 lb = _____ oz

$294 + 239 =$ _____

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If you have three 6 in by 6 in x 6 in aluminum cubes and superglue them together in a row, what is the surface area of the resulting shape made by the three cubes?

Mr. Brown needs to buy some fencing for his garden (too many rabbits have been getting in and eating the vegetables). If his garden is seventeen meters by eighteen meters and is in the shape of a rectangle, what length of fence does he need to build?

Pam rode her bike for 15 minutes. She went 1.8 miles. What is her speed in miles per hour?
Round your answer to the nearest tenth of a mile per hour.

There are 4 prime numbers greater than 10 but less than 20. Name them.



Name: _____

Get a fidget spinner! Spin it.

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

$$8 \times 3 \times 3 \times 4 - 9 + 80 \div 8 = \underline{\hspace{2cm}}$$

$$12 \times 7 + 8 = \underline{\hspace{2cm}}$$

$$3 + 48 \div 12 \times 7 = \underline{\hspace{2cm}}$$

$$8 + (6 \times 4) = \underline{\hspace{2cm}}$$

$$9 \times 5 \times 2 \times 7 = \underline{\hspace{2cm}}$$

$$9 \times 2 + 11 = \underline{\hspace{2cm}}$$

$$5 - 4 + (5 \times 4) \times 8 + 4 - 4 = \underline{\hspace{2cm}}$$

$$5 \times 9 + 10 = \underline{\hspace{2cm}}$$

$$9 + 5 - 8 + (15 \div 5 + 9) = \underline{\hspace{2cm}}$$

$$10 + 3 + 8 - 9 = \underline{\hspace{2cm}}$$

$$4 + 1 + 1 - 6 = \underline{\hspace{2cm}}$$

$$3 \times 3 + 1 = \underline{\hspace{2cm}}$$

$$1 \times 2 \times 1 + 1 \times 9 - 9 + 8 = \underline{\hspace{2cm}}$$

$$5 + 5 + 5 = \underline{\hspace{2cm}}$$

$$5 + 9 + 16 \div 8 + 20 \div 4 - 6 = \underline{\hspace{2cm}}$$

$$(1 \times 9) + 2 = \underline{\hspace{2cm}}$$

$$7 \times 6 + 4 - 3 = \underline{\hspace{2cm}}$$

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

$$9 \times 3 \times 9 - 9 - 1 - 8 = \underline{\hspace{2cm}}$$

$$6 \times 3 \times 1 = \underline{\hspace{2cm}}$$

$$(8 - 7 + 1) + 8 + 77 \div 11 - 5 = \underline{\hspace{2cm}}$$

$$(8 \times 12) - 3 = \underline{\hspace{2cm}}$$

$$8 \times 9 \times 4 - 6 + 2 - (1 + 4) = \underline{\hspace{2cm}}$$

$$3 + 3 + 4 = \underline{\hspace{2cm}}$$

$$6 \times 7 \times 2 \times 7 \times 2 = \underline{\hspace{2cm}}$$

$$10 \times 2 - 4 = \underline{\hspace{2cm}}$$

$$2 + 6 + 1 \times 8 = \underline{\hspace{2cm}}$$

$$3 + 1 + 3 = \underline{\hspace{2cm}}$$

$$3 \times 9 - 8 - 3 - 5 = \underline{\hspace{2cm}}$$

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<p>Hannah goes to five classes per day. Each class lasts $1\frac{1}{2}$ of an hour. How many hours per week does she spend in classes?</p>	<p>Peter picked 25 pretty flowers for his mother. Two-fifths of the flowers were blue. How many flowers were not blue?</p>
---	--

$72 \div 6 = \underline{\hspace{2cm}}$	<p>How many millimeters are in 9 centimeters? _____ millimeters</p>
--	--

<p>What number is halfway between 3 and 15?</p>	$\begin{array}{r} 39 \\ + 20 \\ \hline \end{array}$	<p>In the number 8,271,806,133, the digit 6 is in what place? _____</p>
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<p>Emily makes a basket for every two attempts that she makes. Rosa needs six attempts to make a basket. Each basket is worth 2 points. If they each make 36 attempts, then what is the score?</p>	$5 \times 12 = \underline{\hspace{2cm}}$	$\begin{array}{r} 70 \\ - 20 \\ \hline \end{array}$
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$9 \times 10 = \underline{\hspace{2cm}}$	$\begin{array}{r} 367 \\ + 358 \\ \hline \end{array}$	Rewrite these in increasing order of length: 4 m, 212 mm, 824 dm
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Circle the smallest number: 7,469,503 60,279,584 1,375 986,203,142	Fill in the missing operations to complete this equation: $15 \text{ ____ } 3 \text{ ____ } 16 = 21$
--	---

$\begin{array}{r} 582 \\ - 236 \\ \hline \end{array}$	Write this as a number in standard form. Use a comma in your number. nine hundred nine thousand, seven hundred seventy-four _____	$88 \div 11 = \underline{\hspace{2cm}}$
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You have four digits to use in an addition problem: 7, 1, 4, and 9. Make up a problem where you have two 2-digit numbers. What is the largest sum you can make?	$35 \div 5 = \underline{\hspace{2cm}}$	$22 \div 11 = \underline{\hspace{2cm}}$ $4 \times 2 = \underline{\hspace{2cm}}$
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$2 \times 12 = \underline{\hspace{2cm}}$	$9 \div 3 = \underline{\hspace{2cm}}$	What time is 17 hours after 4:00 p.m.? _____
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$88 \div 11 = \underline{\hspace{2cm}}$	<p>The letters F, G, J, L, N, P, Q, R, S, and Z do not have line symmetry. The rest of the letters in the alphabet do. Can you write someone's name where the complete name has line symmetry? Hint: You cannot use all of the letters. You could use B in a name, but M would not work.</p>	$35 \div 5 = \underline{\hspace{2cm}}$
		$9 \times 3 = \underline{\hspace{2cm}}$
		$8 \times 7 = \underline{\hspace{2cm}}$

$63 \div 9 = \underline{\hspace{2cm}}$	<p>Amy and her little sister, Jessica, both have birthdays on the same day. Amy is sixteen years old. Jessica is eleven years old. Did you know that Amy was once double the age of Jessica? How many years ago was that?</p>	$8 \times 10 = \underline{\hspace{2cm}}$

$13,979 + 18,442 = \underline{\hspace{3cm}}$	<p>Here is a pattern of letters: F F R F F R F F ... What letter will be the 29th term in the pattern?</p>
$72 \div 12 = \underline{\hspace{2cm}}$	
$5 \times 2 = \underline{\hspace{2cm}}$	

<p>Circle the addition property for $60 + 138 = 138 + 60$.</p> <p>associative property commutative property</p>	<p>What number is halfway between 3 and 10?</p>	$66 \div 6 = \underline{\hspace{2cm}}$

Name: _____

x • 1 • 7 • 0 • 1 • + • 4 • 7 • 6 • x • 0 • = • 0 • 4 • 2 • 0 • -
6 • 7 • 0

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

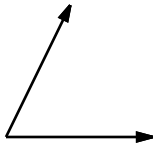
The puzzle consists of a grid of cells. Some cells contain numbers, some contain mathematical symbols, and some are empty. The equations are as follows:

- Top row: 1
- Row 2: 9 7 = 6 3
- Row 3: 2 x = 2
- Row 4: 4 5 ÷ 9 = 5
- Row 5: 8 + 9 = 1
- Row 6: 2 + 6 = 8
- Row 7: 5 x 4 = 2
- Row 8: 5 0
- Row 9: 3 + 7 = 0
- Row 10: 0 + 2 = 6
- Row 11: x
- Row 12: 3
- Row 13: 1
- Row 14: + 1 = 3
- Row 15: 9 = 3 + 0
- Row 16: 2
- Row 17: 2 1 ÷ 3 = 7
- Row 18: 4 2 ÷ 6 =
- Row 19: 6 3 ÷ 7 = 9
- Row 20: 1
- Row 21: 5
- Row 22: 2 + 4 + = 6
- Row 23: 5

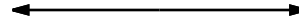
$6 \times 6 =$ _____

Mary is older than Ava. Jessica is younger than Ava. Who's the oldest?

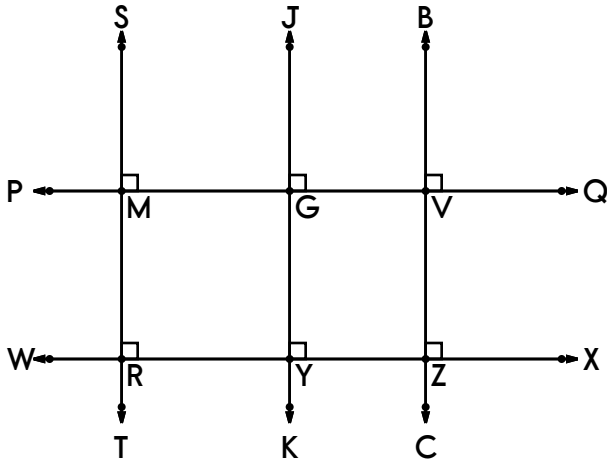
Name: _____



What kind of angle is this?



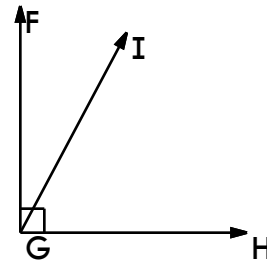
What kind of angle is this?



Name 2 parallel lines (or write none).

Name 2 perpendicular lines (or write none).

Give another name for angle $\angle YZV$.



What kind of angle is $\angle FGH$?

Sketch an obtuse angle
named $\angle ABC$.

What kind of angle has
a measure of 180° ?

Sketch a right angle named
 \angle

Name: _____

Can you figure out the value of the letter?

$$9g + 8 = 17$$

first subtract 8 from both sides
then divide each side by 9

$$9g + 8 - 8 = 17 - 8$$

$$9g = 9$$

$$9g \div 9 = 9 \div 9$$

$$g = 1$$

$$\text{Double check: } (9 \times 1) + 8 = 17$$

$$9a + 5 = 77$$

first subtract 5 from both sides
then divide each side by 9

$$a = \underline{\quad}$$

$$\text{Double check: } (9 \times \underline{\quad}) + 5 = 77$$

$$6b - 2 = 4$$

first add 2 to both sides
then divide each side by 6

$$b = \underline{\quad}$$

$$\text{Double check: } (6 \times \underline{\quad}) - 2 = 4$$

$$9h + 6 = 69$$

first subtract 6 from both sides
then divide each side by 9

$$h = \underline{\quad}$$

$$\text{Double check: } (9 \times \underline{\quad}) + 6 = 69$$

$$6d - 14 = 10$$

first add 14 to both sides
then divide each side by 6

$$d = \underline{\quad}$$

$$\text{Double check: } (6 \times \underline{\quad}) - 14 = 10$$

$$4w - 8 = 0$$

first add 8 to both sides
then divide each side by 4

$$w = \underline{\quad}$$

$$\text{Double check: } (4 \times \underline{\quad}) - 8 = 0$$

Name: _____

Write algebraic expressions.

Multiply y by 11.

Then add 34,915 to the product.

This is how Anna coded your algebraic expression.

ans = y * 11

ans = ans + 34915

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 64 to k .

Then multiply the sum by 4.

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 $\frac{1}{3}$ to the product of 5 and k .

Divide s by 77, and then subtract 234 from the quotient.

Add 37,584 to the product of $7r$ and 2.

Write a description for each algebraic expression.

$(3m) - 22$

Multiply 3 by m . Then subtract 22 from the product.

$146 + z$

$\frac{k}{9}$

$(r - 1620) \times 6$

Name: _____

Here is a chart on turns to help you answer the questions.

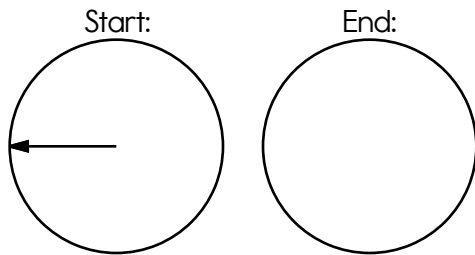
A $\frac{1}{4}$ turn is 90° .

A $\frac{1}{2}$ turn is 180° .

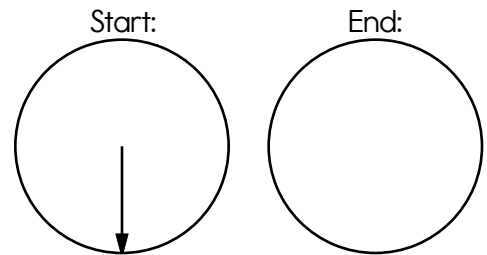
A $\frac{3}{4}$ turn is 270° .

A full turn is 360° .

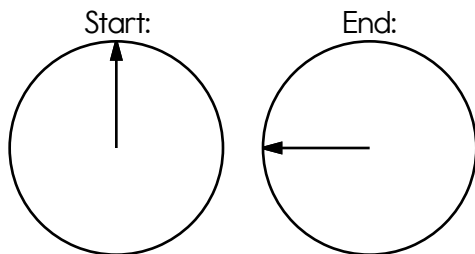
From the start position the pointer turns $\frac{3}{4}$ clockwise. Draw the arrow for the end position.



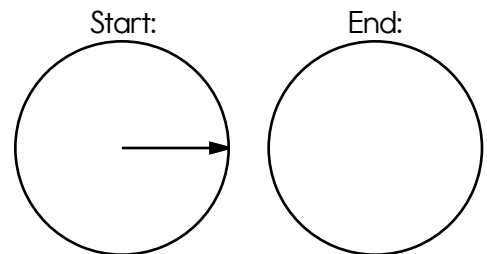
From the start position the pointer turns $\frac{3}{4}$ clockwise. Draw the arrow for the end position.



The start and end positions are shown. Explain the turn that was made.



From the start position the pointer turns 90° clockwise. Draw the arrow for the end position.



An angle that is 32 degrees is

between a -turn and a -turn.

Three right angles equals a -turn.

Sarah is playing a game. She stands in the middle of a circle.

At the start of the game she faces east.

Then she makes a $\frac{1}{2}$ -turn counterclockwise.

In which direction is she now facing?

Name: _____

Kevin practices tennis for 4 hours each week. Hannah practices swimming for 5 hours each week. How many more hours does Hannah practice in 4 weeks than Kevin?

Jack wanted a special costume for the party. He found what he wanted on sale at the costume shop in Martin City. The original price was \$55.79. He received a 20% discount. What was the final cost of the costume, including 7% sales tax?

Which two of these numbers have a product of 3.268?

0.076

7.6

4.3

0.53

0.76

0.043

5.3

0.43

Eric took a big bowl from the kitchen to see what kind of fun party mix he could create.

He added $1\frac{3}{5}$ cups of Goldfish crackers, $\frac{1}{2}$ cup of pretzels, $1\frac{1}{2}$ cups of Cheerios, and $2\frac{6}{7}$ cups of raisins. How many cups of food are now in the bowl?

Name: _____

Write as a decimal.
Four and nine tenths

Write as a decimal.

$$7 \frac{548}{1000}$$

Write as a decimal.

$$\frac{8}{100}$$

Write as a decimal.
Nine and twenty-six hundredths

Write as a decimal.

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

Write as a decimal.
Forty-four thousandths

$$\begin{array}{r} 4.3 \\ - 2.71 \\ \hline \end{array}$$

$$\begin{array}{r} 14.3 \\ - 9.9 \\ \hline \end{array}$$

$$7 - 6.9 =$$

$$9 \overline{) 50.4}$$

$$7 \overline{) 50.4}$$

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

Change $\frac{2}{4}$ to a decimal.

$$6 \overline{) 1.8}$$

$$\begin{array}{r} 6.9 \\ \times 50 \\ \hline \end{array}$$

Name: _____

Only use a pencil to write the numbers on the blank lines. You do not need any scrap paper! Solve it in your head. If you forget a number, then start over. Cool, huh?

Mental Math



= Do it
in your
head!

imagine 4 in your head

add 8

subtract 6

Write the number.

A

imagine 3 in your head

add 5

multiply 9

add 8

Write the tens digit.

B

imagine 8 in your head

subtract 3

subtract 4

add 6

multiply 12

Add the tens digit to the ones digit.

Write the sum.

C D

imagine 7 in your head

add 5

subtract 9

multiply 5

subtract 7

Write the number.

E

What is the sum?

A + B + C + D + E

Wow! Great job! That's the answer, but do you know how to SPELL the number?

_____ t _____ - _____ e

1 after 18 _____

1 before 11 _____

7 after 14 _____

6 after 13 _____

6 before 15 _____

2 after 12 _____

8 after 19 _____

7 before 14 _____

3 after 16 _____

4 after 17 _____

4 before 18 _____

9 after 11 _____

Name: _____

x	2	3	4	5	6	7	8	9	10	11	12
3										33	
9					54						
6						42					
4											48
7								63			
10	20										
2				10							

$63,126 - 54,518 = \underline{\hspace{2cm}}$	Can 374 be evenly divided by 4? Circle: 374 is evenly divisible by 4 374 is NOT evenly divisible by 4
$24 \div 2 = \underline{\hspace{2cm}}$	
$8 \times 6 = \underline{\hspace{2cm}}$	

$108 \div 9 = \underline{\hspace{2cm}}$	$815 + 176 = \underline{\hspace{2cm}}$
$11 \times 6 = \underline{\hspace{2cm}}$	$22 \div 2 = \underline{\hspace{2cm}}$

Name: _____

	+	+	+	=	
	A	B	A	A	43
+	A	B	C	C	39
x	B	?	C	B	31
=	B	?	C	B	
	96	56	112	82	

Equations and Hints:

Each letter is a whole number.

Fill in the equations using the chart:

$$A + B + A + A = 43 \quad A + B + C + \underline{\quad} = 39$$

$$\underline{\quad} + \underline{\quad} \times \underline{\quad} = 96 \quad \underline{\quad} + \underline{\quad} \times \underline{\quad} = 112$$

$$\underline{\quad} + \underline{\quad} \times \underline{\quad} = 82$$

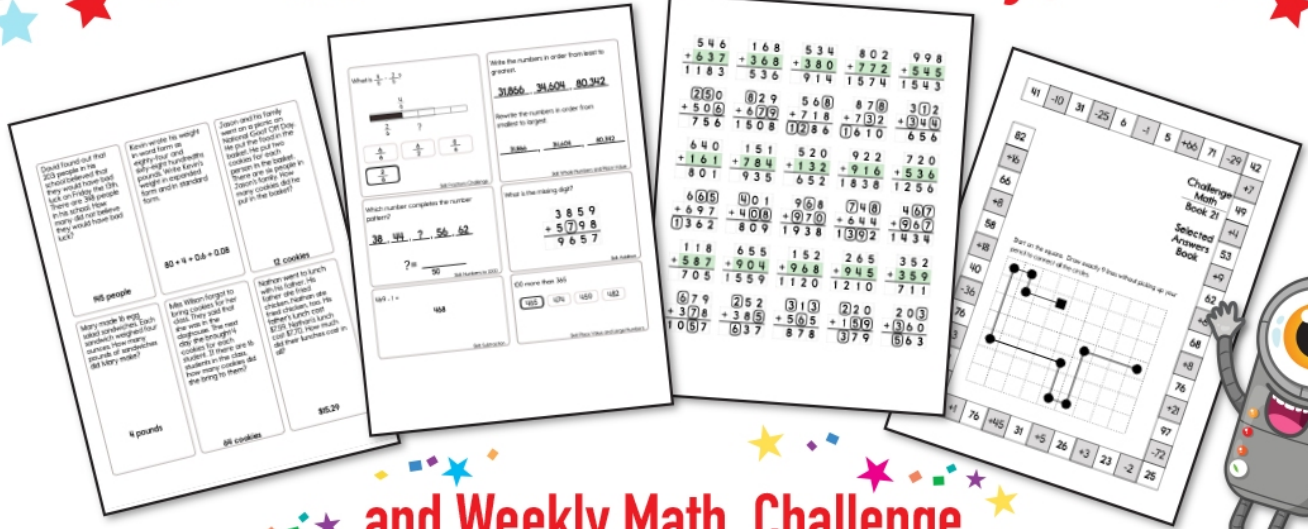
Additional hints:

$$C = B + 3 \quad A < 18$$

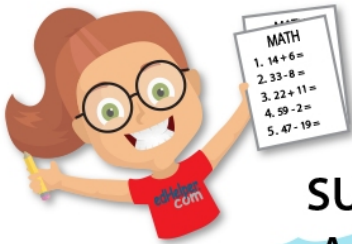
Solve:

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

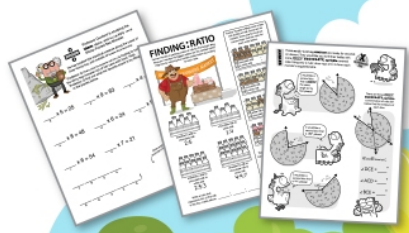
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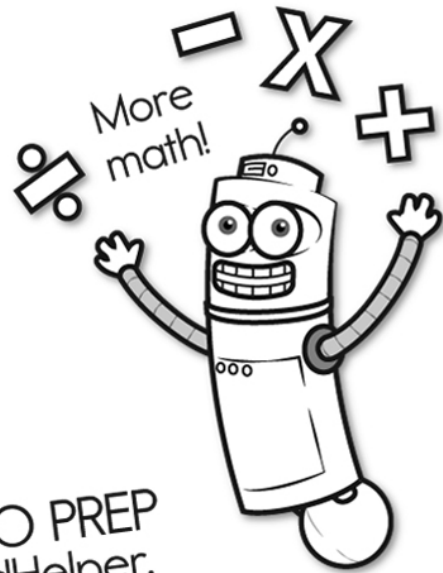
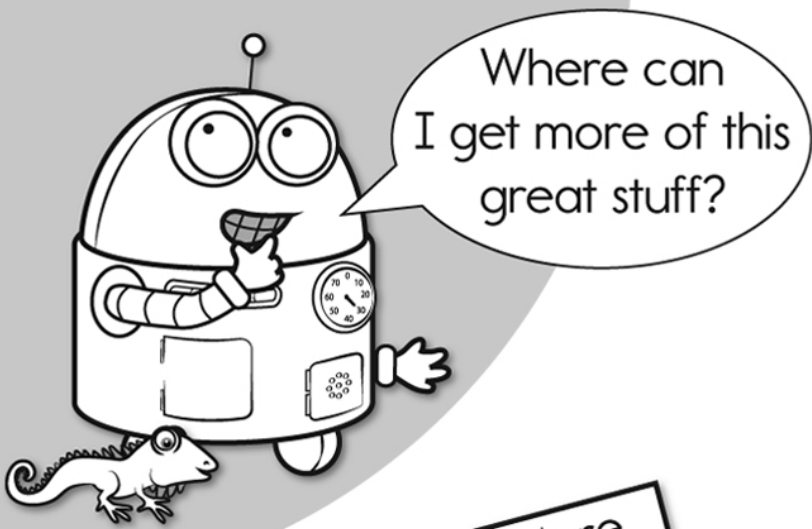
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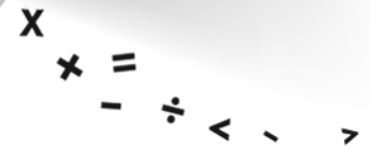
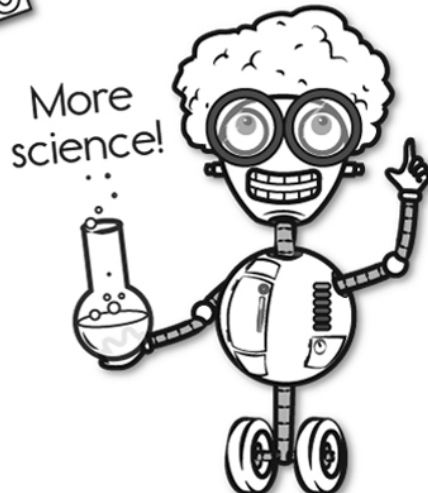
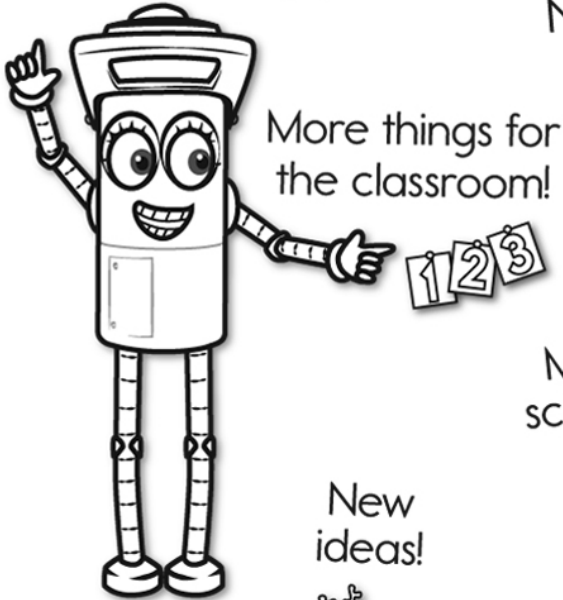
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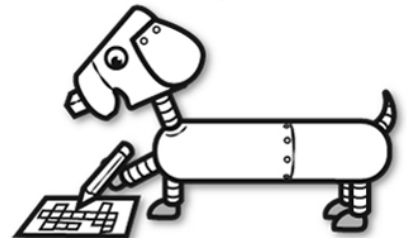


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