

Name: \_\_\_\_\_

Given the digits 7, 3, and 6, how many different three-digit numbers can you create greater than 700 if you can only use each digit once for each different number?

- A) 2
- B) 9
- C) 3
- D) 12

$$7 \times 7 =$$

- A) 429
- B) 46
- C) 49
- D) None of the above

$$33 - 10 \times 6 =$$

- A) 173
- B) 258
- C) -27
- D) None of the above

The difference of two numbers is 4. The sum of the same two numbers is 20. Which of these number pairs are the numbers?

- A) 9 and 8
- B) 6 and 2
- C) 12 and 8
- D) 8 and 2

$$10 \times 4 = 8 \times \underline{\quad\quad\quad}?$$

- A) 5
- B) 14
- C) 6
- D) 10

$$21.06 - 0.34 =$$

- A) 21.40
- B) 20.72
- C) 21.72
- D) 21.34

Name: \_\_\_\_\_

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

START 4	4	2	1
6	2	1	7
3	3	9	5
8	4	5	FINISH SUM: 35

4 + 4 + 2 + 3 + 9 + 1 +  
7 + 5 = 35

START 19	2	11	11
2	4	4	19
18	2	14	FINISH SUM: 62

19 + 2 + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ =  
62

START 7	8	9	7
6	6	8	8
8	7	6	8
9	9	7	FINISH SUM: 42

Did you find a path? Write the equation.

START 2	7	3	9
1	2	9	4
8	4	6	9
4	7	5	FINISH SUM: 67

2 + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ +  
\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ =  
67

Name: \_\_\_\_\_

Single movie tickets at Marina Theater are \$6.75 each. A season ticket for ten movies costs \$55.99. If Hannah buys a season ticket and attends ten movies, how much will she save?

There are 24 students in the physical science class. Six of them wear glasses and 7 wear contact lenses. What is the ratio of students who wear corrective lenses to those who do not?

Write the number that when multiplied by 8 is -56. \_\_\_\_\_

What number multiplied by -3 results in a product of -36? \_\_\_\_\_

In art class, the teacher asked the class to draw a rectangle.

Mrs. Garcia is not just the art teacher but also the math teacher. She loves to talk numbers!

She explained, "I don't want to give you the exact size, but the ratio of one of the sides of your rectangle to the side next to it should be 6 to 2. Each side of the shape must have a length that is a whole number of inches."

Megan wants to draw the biggest rectangle on her 13.5-inch by 22.5-inch piece of paper.

What size should she draw the rectangle?

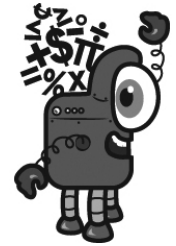
Name: \_\_\_\_\_

Mental Math

— #1 —

■ Start with the number 868.

868



■ Add the number of ounces in 2 pounds.

8 8 6 9 0 0 1 9 7 3 (Circle your answer to double check you are correct.)

\_\_\_\_\_

■ Double that number.

4 1 8 0 0 5 2 0 9 6

\_\_\_\_\_

■ Increase that number by 4.

1 8 0 4 8 4 5 9 9 3

\_\_\_\_\_

■ Double that number.

4 7 8 0 3 6 0 8 7 4

\_\_\_\_\_

■ Add the number of cups in 2 quarts.

3 7 3 6 1 6 5 2 9 9

\_\_\_\_\_

Mental Math

— #2 —

○ Start with the number 519.

6 1 3 3 5 5 1 9 4 1 (Circle your answer to double check you are correct.)

\_\_\_\_\_

○ Increase that number by 3.

8 2 5 0 7 7 5 2 2 2

\_\_\_\_\_

○ Add half of 46.

3 7 2 5 6 0 5 4 5 1

\_\_\_\_\_

○ Add a half dozen.

9 8 3 5 5 1 8 2 7 0

\_\_\_\_\_

○ Increase that number by 6.

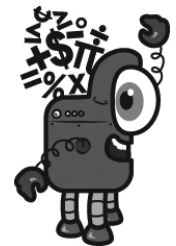
2 7 5 5 7 5 9 6 6 9

\_\_\_\_\_

○ Add the number of dimes in a dollar.

5 5 6 7 3 8 9 9 2 1

\_\_\_\_\_



Name: \_\_\_\_\_

Anne bought paper streamers for Blah Buster Day. Each streamer was  $2\frac{1}{2}$  meters long. How many centimeters long was each streamer?

Rewrite these in increasing order of length:

390 cm, 246 km, 766 mm, 569 m

$$11 \times 4 = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 456 \\ - 346 \\ \hline \end{array}$$

Justin took three numbers greater than 1 and multiplied them. One number was seven and the other number was twelve. Of course, he forgot the last number, but he remembered the product was 179. Is this possible?

$$1 \text{ lb} = 16 \text{ oz}$$

$$9 \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$$

$$\begin{array}{r} 34 \\ + 24 \\ \hline \end{array}$$

$$24 \div 6 = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 361 \\ + 349 \\ \hline \end{array}$$

Write an equation to represent this:

The sum of four and seven is eleven.

\_\_\_\_\_

Name: \_\_\_\_\_

<p>In the number 3,630,397,484, the digit 0 is in what place?</p> <p>_____</p>	<p>What is the largest possible sum of a three-digit number and a two-digit number? Show the two numbers.</p>
<p>What time is 14 hours after 4:00 p.m.?</p> <p>_____</p>	

<p><math>6,969 + 5,936 =</math> _____</p>	<p>How many yards are in 24 feet?</p> <p>_____ yards</p>
---	--

<p>What number is halfway between 18 and 27?</p>	<p><math>4,261 + 7,649 =</math> _____</p>	$\begin{array}{r} 33 \\ - 10 \\ \hline \end{array}$
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<p>26 cm = _____ mm</p>	<p>Circle the addition property for <math>34 + 107 = 107 + 34</math>.</p> <p style="text-align: center;"> <input type="checkbox"/> associative property  <input type="checkbox"/> commutative property         </p>	<p><math>20 \div 2 =</math> _____</p>
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<p>Holly took three numbers greater than 1 and multiplied them. One number was six and the other number was sixteen. Of course, she forgot the last number, but she remembered the product was 480. Is this possible?</p>	<p>13% of 100 is 13. 13% of 200 is 26. 13% of 500 is 65.</p> <p>What is 13% of 900?</p>
---	---

<p><math>8 \times 9 =</math> _____</p>
--



Name: \_\_\_\_\_

- • 2 • 0 • 2 • 5 • - • 1 • 2 • 0 • + • 5 • + • 5 • = • 1 • 6  
7 • 8 • 6 • 8

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

		8 - 3 = 7									
8							+				
-							+				
				+				+ 4 = 6			
5 -		= 3		3				=			
=		+				+		4 +		= 7	
6				1							
9 - 2 =				2		1					
3		3		4		7 + 9					
		=				6		+			
		-		5 = 2 + 1				2			
				1				=			
		6 + 0 =						8			

$(5 + 4) + 3 =$

$5 \times 4 =$  \_\_\_\_\_

Pick a month. Can you make up a calendar for your month with four Mondays? Show your calendar below:



Name: \_\_\_\_\_

$$k + k + k + k + k + k + k =$$

$$s + 7s =$$

$$9m + 3m =$$

$$6y - 2y =$$

$$8z - 3z + z =$$

$$5y + 14 - 7 + 8y - 1y =$$

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

Did you get the same result for both equations?

$$r + r + r + r - 4 + 8 =$$

$$s + s + s + 4 - s =$$

$$16m - 8m + 24 =$$

$$20z - 7z + 13z + 2z =$$

$$51,766k - 509k =$$

Justin wrote the following program. He remembered to use `*` for multiplication in his code.

```
k = 4
```

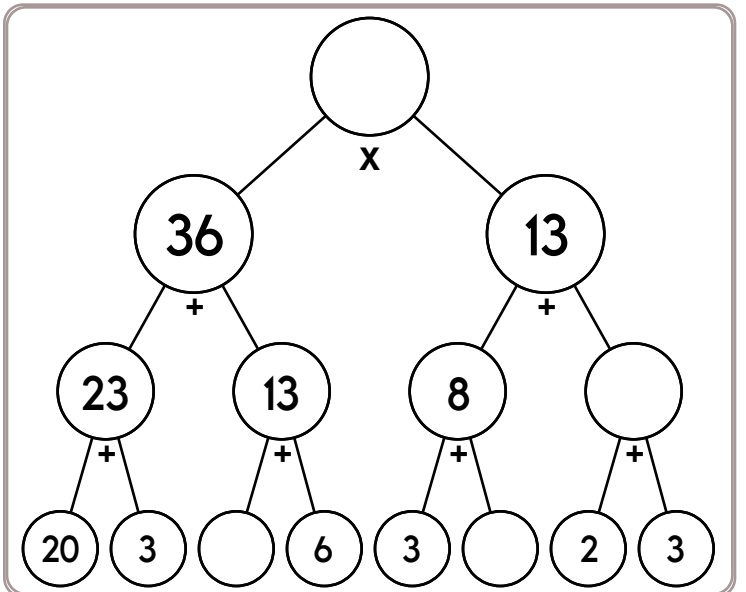
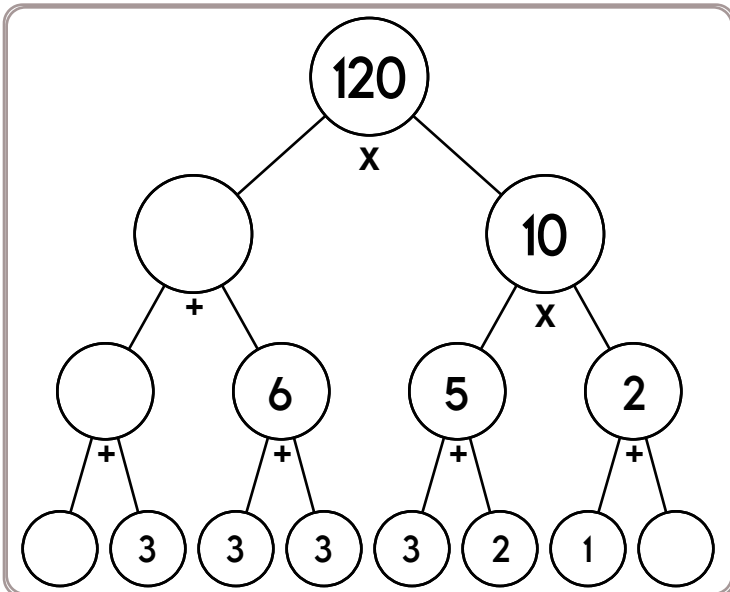
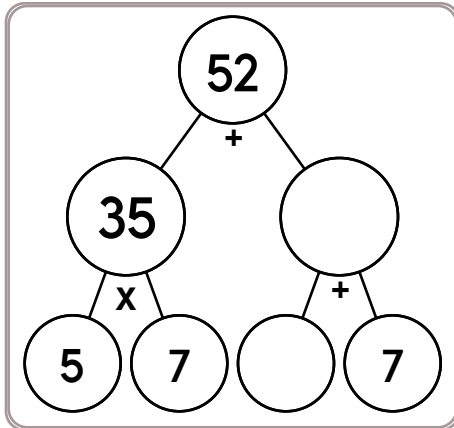
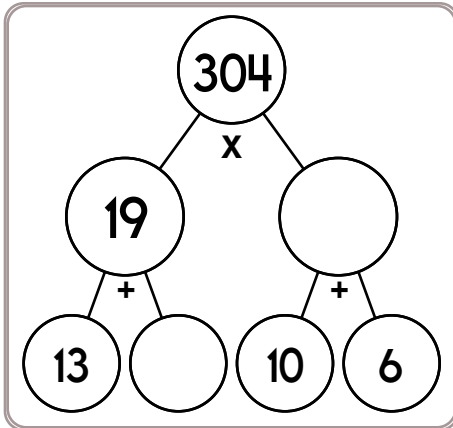
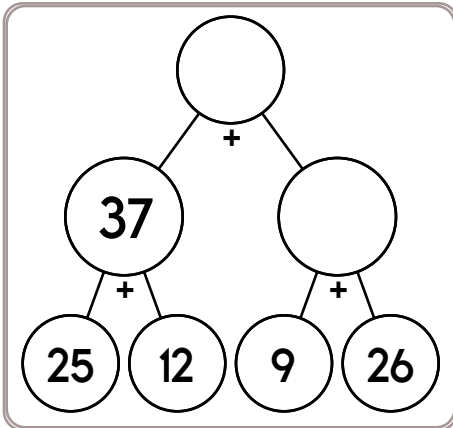
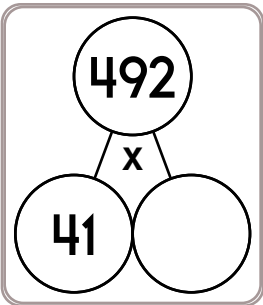
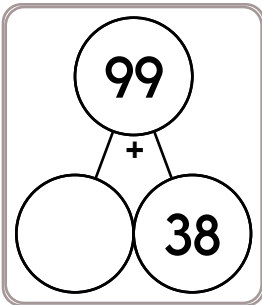
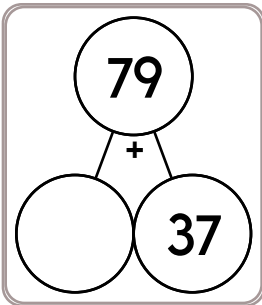
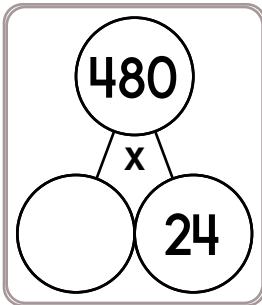
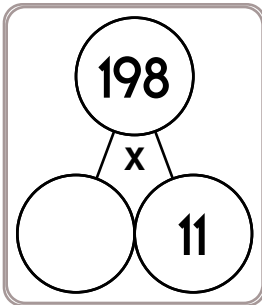
```
s = 8 * k
```

```
print("Eight times k is thirty-two")
```

```
print("The value of s is ", s)
```

When this program is run, what will be printed to the screen?

Name: \_\_\_\_\_



$$\begin{array}{r}
 21.7 \\
 8.68 \\
 + 4.987 \\
 \hline
 \end{array}$$

Write the decimal number for:  
eight ten-thousandths

$$\begin{array}{r}
 653 \\
 52 \\
 183 \\
 + \quad 6 \\
 \hline
 \end{array}$$

Name: \_\_\_\_\_

$$\begin{array}{r} 885 \\ - 483 \\ \hline \end{array}$$

Reduce each fraction to its lowest terms.

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

$$\frac{7}{49} =$$

$$\frac{5}{15} =$$

$$\frac{4}{20} =$$

$$\frac{21}{56} =$$

$$\frac{50}{90} =$$

Change  $\frac{4}{10}$  to a decimal.

$$\begin{array}{r} \frac{10}{12} \\ + \frac{10}{12} \\ \hline \end{array}$$

Convert to a fraction or mixed number and simplify.

Write the decimal in words.  
3.00013

$$\begin{array}{r} 6 \\ - 4\frac{10}{11} \\ \hline \end{array}$$

Change  $\frac{3}{10}$  to a percent.

$$\begin{array}{r} 976 \\ + 63 \\ \hline \end{array}$$

Name: \_\_\_\_\_

Find the least common denominator.

$$\frac{2}{7} \text{ and } \frac{7}{8}$$

Reduce each fraction to a mixed numeral in its lowest terms.

$$\frac{90}{45} =$$

$$\frac{224}{40} =$$

$$\frac{438}{54} =$$

$$\frac{18}{30} =$$

$$\frac{15}{18} =$$

$$\frac{108}{27} =$$

$$\begin{array}{r} 5 \frac{1}{10} \\ + 2 \frac{8}{10} \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 2 \frac{6}{10} \\ \hline \end{array}$$

Reduce  $\frac{60}{114}$  to its lowest terms.

$$\begin{array}{r} 20 \frac{1}{5} \\ - 6 \\ \hline \end{array}$$

$$\frac{4}{5} \div \frac{1}{4} =$$

$$\frac{4}{8} \times \frac{1}{4} =$$

Write the reciprocal.

6

Name: \_\_\_\_\_

The number 387 expressed as a product of its prime factors is  $3 \times 3 \times 43$ . Using this, try to quickly figure out how to express the number 1,548 as a product of its prime factors.

Write the least common multiple for each pair of numbers.

4 and 5

9 and 16

42 and 27

Find the value of each expression.

$$5^2$$

$$5^3$$

$$5^3 + 8$$

$$5^4$$

$$5^3 \times 5$$

$$5^3 \times 5^2$$

You are given that  $m = 2^2 \times 4$ .

What is the value of  $m$ ?

What is the value of  $10m$ ?

Write  $10m$  as a product of primes.

Name: \_\_\_\_\_

Anna babysat Jessica and was paid \$120 for 6 hours of work. How much was she paid per hour?

She plans to babysit Jessica next week and will be paid at the same rate. If she works 8 hours next week, how much will she be paid?

Peter wants to hang out with friends at the bowling alley. The closest bowling alley he found offers lane rentals for \$6.50 per hour from 10 a.m. until 5 p.m. After 5 p.m., prices jump to \$7 per hour. If Peter rents a lane for 2 hours starting at 4 p.m., how much will he have to pay?

One pitching machine can throw 4 pitches in 60 seconds.

One pitching machine can throw \_\_\_\_\_ pitches in 90 seconds.

Two pitching machines can throw \_\_\_\_\_ pitches in 60 seconds.

Two pitching machines can throw \_\_\_\_\_ pitches in 90 seconds.

It takes Sara 30 seconds to fill a water bottle. How long would it take her to fill 2 water bottles?

Anne decided to help Sara fill 2 water bottles. How long do you think it will take for them to work together to fill 2 bottles?

Name: \_\_\_\_\_

Use a protractor to draw  
an acute angle  $\angle ABC$ .

Use a protractor to  
draw a  $160^\circ$  angle.

Use a protractor to draw  
an obtuse angle  
 $\angle EFG$ .

Change  $\frac{168}{96}$  to a mixed  
number.

Find the least common  
denominator.

$$\frac{1}{6} \text{ and } \frac{3}{8}$$

$$\begin{array}{r} \frac{1}{4} \\ + \frac{4}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 2.6 \\ \times 6.6 \\ \hline \end{array}$$

$$7 \overline{) 1.4}$$

$$8 \overline{) 28.8}$$

Name: \_\_\_\_\_

X			4			7
						42
	___x___	___x___	___x 4	___x___	___x___	___x 7
5	60	60			55	
	5 x ___	5 x ___	5 x 4	5 x ___	5 x ___	5 x 7
	72					
	___x___	___x___	___x 4	___x___	___x___	___x 7
	132				121	
	___x___	___x___	___x 4	___x___	___x___	___x 7
		36	12			
	___x___	___x___	___x 4	___x___	___x___	___x 7
	72					
	___x___	___x___	___x 4	___x___	___x___	___x 7
5				60		35
	5 x ___	5 x ___	5 x 4	5 x ___	5 x ___	5 x 7
	132					
	___x___	___x___	___x 4	___x___	___x___	___x 7

6 x 8 = \_\_\_\_\_

Circle the greatest number:

60,142,879,353

5,170,298

4,617

6,854,320,923

9 x 11 = \_\_\_\_\_

word root **pond** can mean **weight**

**ponderous, ponder**



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	7+		4-	
11+	2-	3	9+	1-
		1	4	
	5	2-		2
5+		10+		

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

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

$$\underline{\quad} + 4 = 5$$

$$\underline{\quad} - 4 = 1$$

$$5 - \underline{\quad} = 4$$

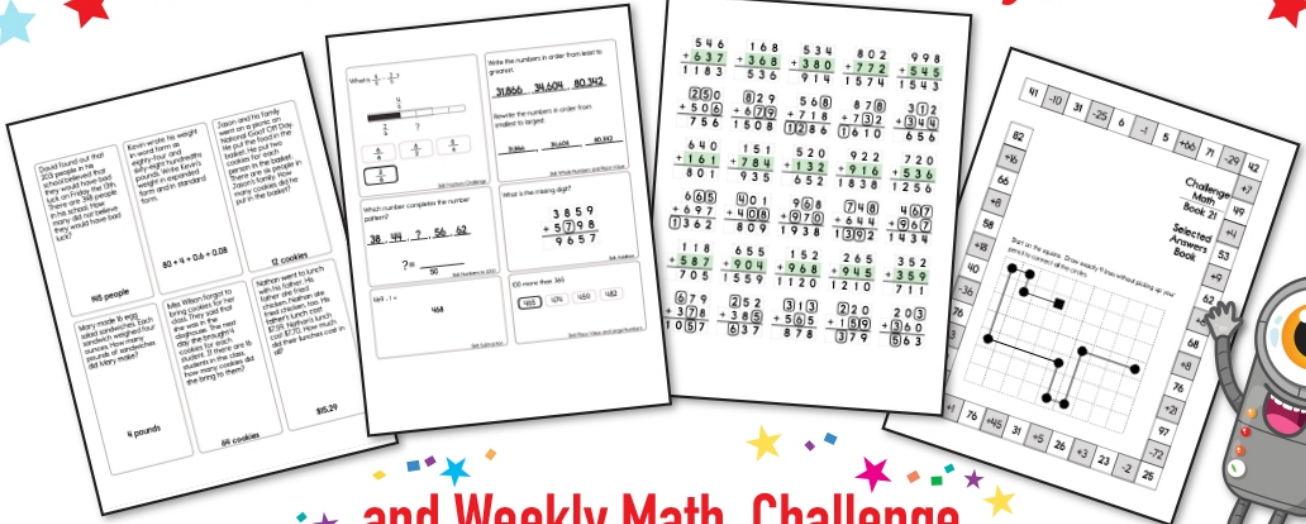
$$\underline{\quad} + 3 + \underline{\quad} = 10$$

$$\underline{\quad} + \underline{\quad} + 1 = 7$$

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

$$\underline{\quad} + 5 + \underline{\quad} = 11$$

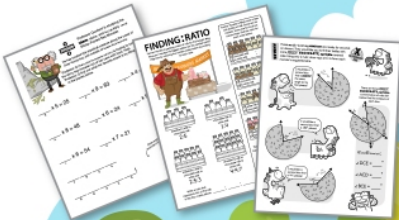
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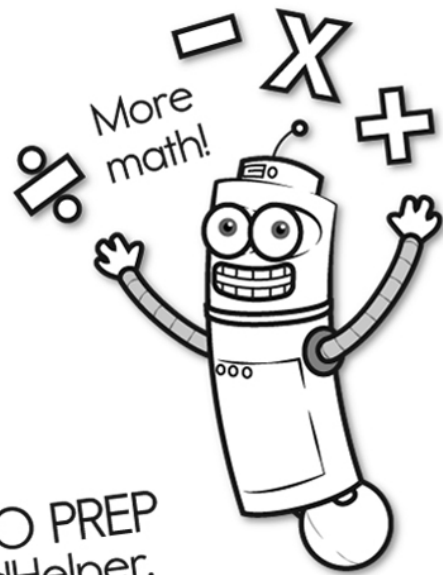
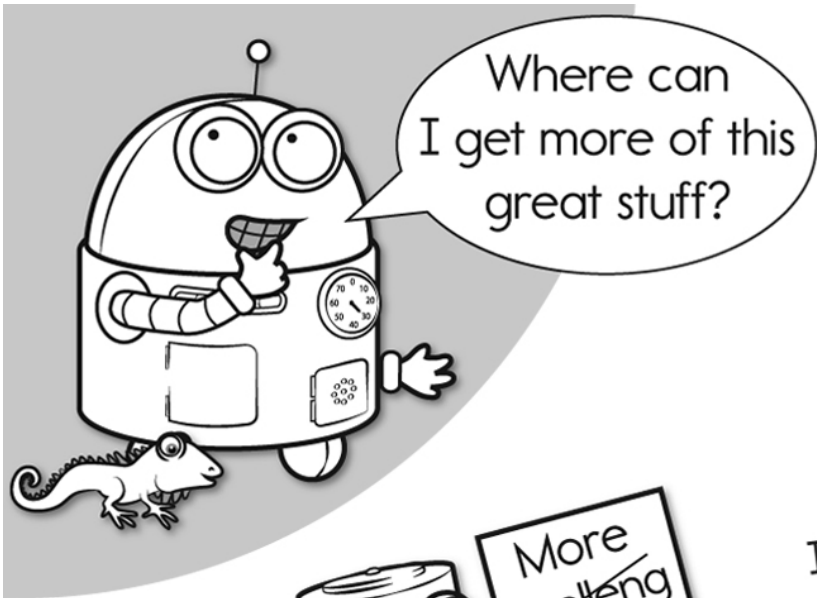
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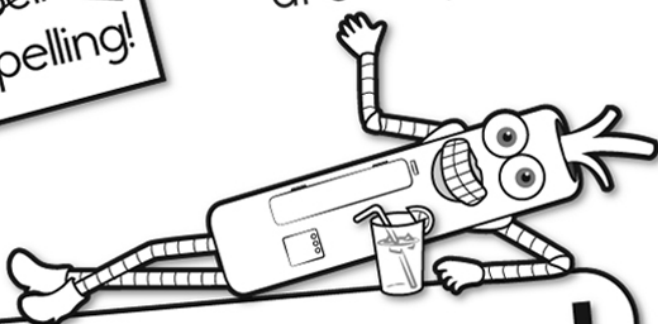


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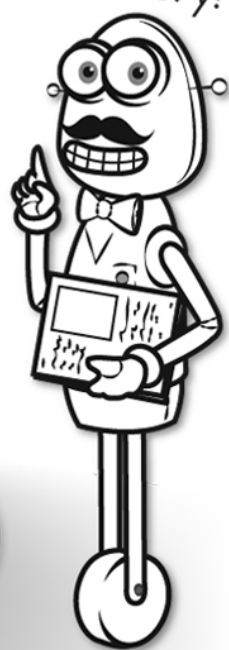


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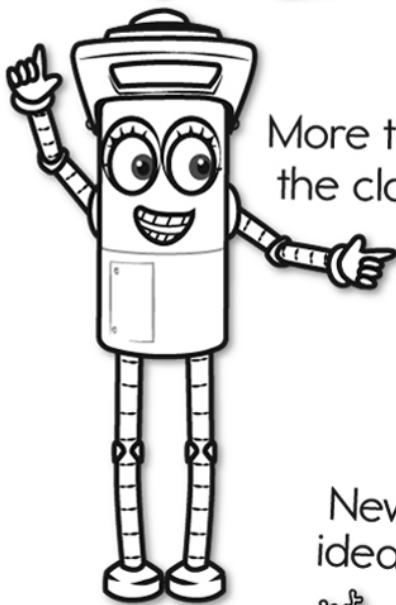
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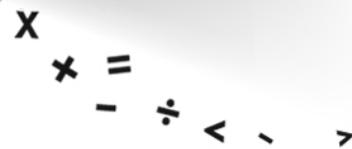
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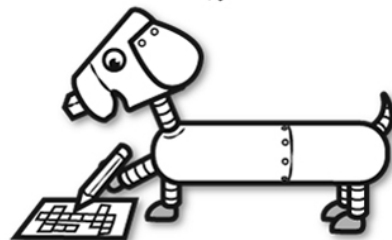
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