

Name: _____

Change 10% to a decimal and a fraction expressed in its lowest terms.

Change to decimals.

$$20\% = \underline{\hspace{2cm}}$$

$$36\% = \underline{\hspace{2cm}}$$

$$19\% = \underline{\hspace{2cm}}$$

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

Find 54% of 263.

Change $\frac{2}{5}$ to a decimal.

Find 40% of 195.

200 is what percent of 250?

99 is what percent of 165?

Change to percents.

$$0.79 = \underline{\hspace{2cm}}$$

$$0.04 = \underline{\hspace{2cm}}$$

$$0.57 = \underline{\hspace{2cm}}$$

$$0.82 = \underline{\hspace{2cm}}$$

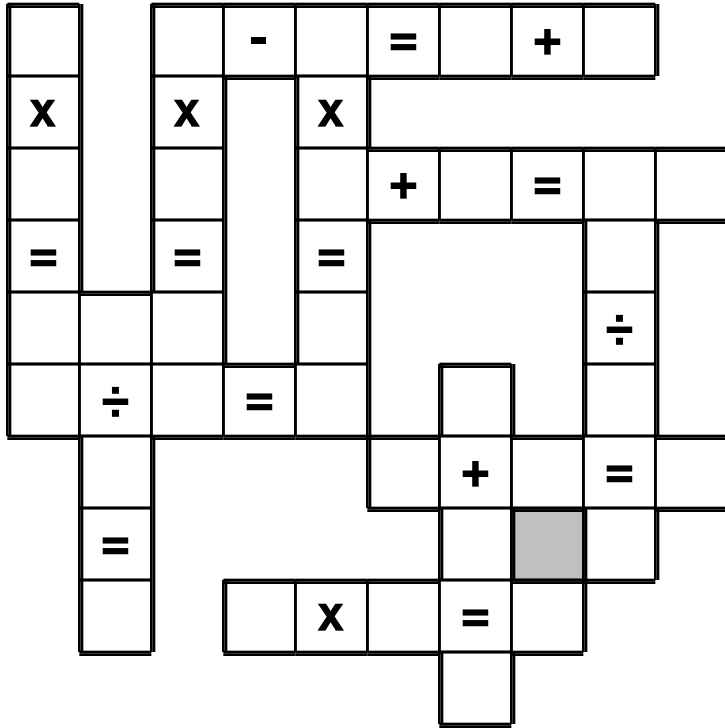
$$0.91 = \underline{\hspace{2cm}}$$

Change $\frac{49}{50}$ to a decimal.

Name: _____

8 • 7 • 0 • 6 • 1 • 5 • 8 • 6 • 7 • 1 • 3 • 8 • 4 • 7 • 5 • 0
0 • 6 • 0 • 0 • 2 • 1 • 3 • 1 • 4 • 5 • 9 • 7 • 3 • 3 • 9 • 5

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



Change 49% to a decimal and a fraction expressed in its lowest terms.

Reduce each fraction to its lowest terms.

$$\frac{5}{30} =$$

$$\frac{28}{36} =$$

$$\frac{60}{90} =$$

$$\frac{15}{21} =$$

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

$$\frac{20}{32} =$$

Find the sum of 1587, 635, and 291.

Name: _____

Wendy is making Vampire Punch for the Halloween party. The recipe makes 12 servings and calls for $\frac{2}{5}$ cups of cranberry juice. How much cranberry juice will she need for 20 servings?

In Bigtown Creek, the flow of sediment is slowly decreasing as more and more of the drainage area around the creek is developed and covered by concrete. Ten years ago a measurement was made by the local university and an average mass of about 25 grams of sediment per hour was moving down the creek. Now the average sediment flow is only about 32% of that. What is the current mass sediment flow? Round your answer to the nearest tenth.

Rewrite these numbers in order from least to greatest.

-7

-7.32

-6.092

-7.0023

-6

What is the greatest common factor of 12 and 20?

What is the least common multiple of 12 and 14?

$$m + 10 = 23$$

Name: _____

Complete each pattern. Write what the rule is.

136	151	166
181		211
226		256
271		301

Complete each pattern. Write what the rule is.

$$\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, 1, 1\frac{1}{4}, 1\frac{1}{2}, 1\frac{3}{4}, 2,$$

$$2\frac{1}{4}, 2\frac{1}{2}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 3\frac{1}{4}, 3\frac{1}{2}, 3\frac{3}{4}, 4$$

$$\frac{3}{4}, 1, 1\frac{1}{4}, 1\frac{1}{2}, 1\frac{3}{4}, 2, 2\frac{1}{4}, \underline{\hspace{1cm}},$$

$$2\frac{3}{4}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 3\frac{1}{2}, 3\frac{3}{4}, 4, 4\frac{1}{4}, 4\frac{1}{2}$$

Add $\frac{1}{4}$

Name: _____

Anne took three numbers greater than 1 and multiplied them. One number was four and the other number was thirteen. Of course, she forgot the last number, but she remembered the product was 624. Is this possible?

Hannah rolls a die. What is the chance of her rolling a 5?

28 lb = _____ oz

$45 \div 5 =$ _____

$$\begin{array}{r} 779 \\ - 409 \\ \hline \end{array}$$

$48 \div 12 =$ _____

$7 \times 7 =$ _____

1 cm = 10 mm

22 cm = _____ mm

Rewrite these in increasing order of length:

708 km, 128 mm, 76 dm

$$\begin{array}{r} 87 \\ - 22 \\ \hline \end{array}$$

Write the missing family fact.

$3 \times 13 = 39$

$39 \div 13 = 3$

$13 \times 3 = 39$

$8,232 - 2,797 =$ _____

The boys in your class each were given a ticket with a number on it. The numbers given out were: 18, 6, 37, 30, 27, 21, 28, 24, 29, 40, and 9. One ticket will be picked from a hat. What are the chances that the winning ticket number is divisible by 3?

Name: _____

$27 \div 3 = \underline{\hspace{2cm}}$	Circle the addition property for $61 + 97 = 97 + 61$. associative property commutative property	The product of two consecutive whole numbers is 240. What are the two consecutive whole numbers?
$12 \times 4 = \underline{\hspace{2cm}}$		
$4 \times 4 = \underline{\hspace{2cm}}$		
For 7,935,219,264,676,763, write the digit that is in the hundred thousands place. _____		

$\begin{array}{r} 33 \\ + 26 \\ \hline \end{array}$	$72 \div 8 = \underline{\hspace{2cm}}$	$18 \div 2 = \underline{\hspace{2cm}}$	$\begin{array}{r} 212 \\ + 451 \\ \hline \end{array}$
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Circle the digit in the tenths place. 4,387.1269	How many yards are in 21 feet? _____ yards
---	---

Can 516 be evenly divided by 12? Circle: 516 is NOT evenly divisible by 12 516 is evenly divisible by 12	$7,466 + 2,896 = \underline{\hspace{2cm}}$
	$142 + 316 = \underline{\hspace{2cm}}$

$938 + 771 = \underline{\hspace{2cm}}$	$8 \times 7 = \underline{\hspace{2cm}}$	$27 \div 3 = \underline{\hspace{2cm}}$
--	---	--

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

Name: _____

Some vowels are missing in the word search.
Fill in the missing vowels and circle the words.

F	R	□	□	T	G	□	S	H	O
E	M	□	N	□	S	T	□	R	M
□	M	P	□	R	□	T	□	V	□
Y	X	S	□	N	□	T	□	R	N
□	B	T	□	□	N	□	B	L	□
T	□	N	G	R	Y	R	E	I	J
□	□	L	□	D	□	R	O	V	E
X	E	T	M	L	□	□	J	E	A
U	Y	L	A	M	□	R	□	T	N
L	K	□	N	L	S	I	R	B	S

IMPERATIVE • ELUDE • MERIT
SENATOR • GASH • KIN • FRUIT
ANGRY • OBTAINABLE • MINISTER
JEANS • TAX • LIE

What time is 15 hours after
5:00 p.m.?

6 x 12 = _____

Circle the smallest number:

81,295,342 293,607,815,453
21,074,869,670 59,678

3 x 11 = _____

8,223 + 1,352 = _____

Write this as a number in standard form.
Use a comma in your number.

six hundred eighty-four thousand, nine
hundred thirty-nine

5,121 - 4,755 = _____

8 x 8 = _____

Name: _____

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

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

The puzzle grid contains the following elements:

- Top right: 6
- Below 6: ÷
- Below ÷: 3 x 2 = 6
- Below 3 x 2 = 6: 1 =
- Left side: 5 x = 3 5
- Below 5 x = 3 5: 9
- Below 9: =
- Below =: 7
- Below 7: ÷ 2 =
- Below ÷ 2 =: =
- Below =: 3
- Center: 0 + 3 = 3
- Below 0 + 3 = 3: 4
- Below 4: 0 + 6 = 6
- Below 0 + 6 = 6: 8
- Below 8: x
- Below x: 1
- Below 1: =
- Below =: 1
- Below 1: +
- Below +: 8
- Below 8: -
- Below -: 2
- Below 2: =
- Below =: 1
- Below 1: +
- Below +: 1
- Below 1: =
- Below =: 3
- Below 3: ÷ 6 =
- Below ÷ 6 =: =
- Below =: 7 = 1 4
- Below 7 = 1 4: 4
- Bottom: 1 5 - 7 = 0 8
- Below 1 5 - 7 = 0 8: 6

5 x 10 =	90 ÷ 9 = _____	66 ÷ 6 =
24 ÷ 8 = _____	30 ÷ 6 =	11 x 5 = _____

Name: _____

A family medical practice has four doctors that work during the day (Dr. Demir, Dr. Curry, Dr. Karp, and Dr. Nguyen). The computer somehow mixed up the records for some of the appointments (7:10 a.m., 8:20 a.m., 8:45 a.m., and 7:25 a.m.). The nurse who is trying to fix the records knows that David, James, Jordan, and Steven made the appointments. The patients have already been to their doctor a different number of times (zero, one, two, and three).

Help the nurse by figuring out which doctor each patient is going to see, the number of times they have already seen the doctor, and the time of their appointment.

1. James has been to the doctor either two or three times.
2. Dr. Demir did not schedule any appointments before 7:05 a.m.
3. The person who has an appointment at 8:20 a.m. has already been to the same doctor, however the patient is not the one who has been to the doctor either zero or three times.
4. Dr. Karp did not schedule any appointments before 8:25 a.m.
5. James' appointment is 25 minutes after David's appointment.
6. Dr. Nguyen is not currently accepting new patients.
7. Dr. Karp read in his charts that his patient has previously seen him two times.
8. Dr. Nguyen did not schedule any appointments before 8:05 a.m.
9. David's appointment is after Jordan's and also after Steven's.
10. Dr. Curry read in his charts that his patient has previously seen him three times.
11. The person who has an appointment at 7:25 a.m. has already been to the same doctor, however the patient is not the one who has been to the doctor either zero or one time.

Dr. Demir is going to see _____ at _____. This patient has seen Dr. Demir _____ time(s).

Dr. Curry is going to see _____ at _____. This patient has seen Dr. Curry _____ time(s).

Dr. Karp is going to see _____ at _____. This patient has seen Dr. Karp _____ time(s).

Dr. Nguyen is going to see _____ at _____. This patient has seen Dr. Nguyen _____ time(s).

Name: _____

Use mental math to quickly solve.

$$0.939 \div 10 = \underline{\hspace{2cm}}$$

$$34.31 \div 10 = \underline{\hspace{2cm}}$$

$$62.56 \div 10 = \underline{\hspace{2cm}}$$

$$0.11 \div 10 = \underline{\hspace{2cm}}$$

$$3,755.4 \div 100 = \underline{\hspace{2cm}}$$

$$7,548.9 \div 100 = \underline{\hspace{2cm}}$$

$$0.686 \div 10 = \underline{\hspace{2cm}}$$

$$510.7 \div 100 = \underline{\hspace{2cm}}$$

$$9,829.2 \div \underline{\hspace{2cm}} = 98.292$$

$$43.47 \div \underline{\hspace{2cm}} = 4.347$$

$$295.3 \div 100 = \underline{\hspace{2cm}}$$

$$926.9 \div \underline{\hspace{2cm}} = 9.269$$

$$\underline{\hspace{2cm}} \div 10 = 2.412$$

$$0.46 \div 10 = \underline{\hspace{2cm}}$$

$$2 \overline{) 1.8}$$

$$3 \overline{) 11.7}$$

$$4 \overline{) 4.0}$$

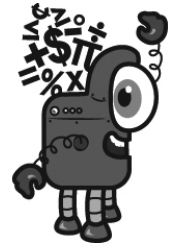
Name: _____

Mental Math

— #1 —

Start with the number 774.

774



Add the digits in your number. The sum of that is your new number.

9 4 3 1 1 8 2 9 1 4 (Circle your answer to double check you are correct.)

Add half of 36.

2 8 8 3 6 5 1 1 4 5

Subtract 22.

6 7 1 4 8 4 7 1 1 1

Triple that number.

9 9 5 7 7 4 2 0 2 2

Subtract the number of inches in 3 feet.

6 0 1 1 4 7 6 3 2 9

Mental Math

— #2 —

☀ Start with the number of wheels on 4 cars.

8 4 6 3 4 9 1 6 7 2 (Circle your answer to double check you are correct.)

☀ Multiply the tens digit by the ones digit. The product is your new number.

7 6 3 8 2 8 1 2 4 3

☀ Add the number of inches in 1 foot.

6 2 3 5 9 9 4 1 8 1

☀ Triple that number.

9 3 6 3 4 5 4 8 2 0

☀ Add 10.

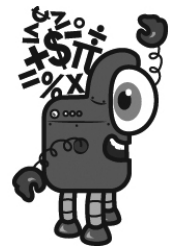
1 8 7 7 9 3 6 4 6 0

☀ Find the square root.

8 8 4 5 5 3 3 9 8 1

☀ Add 39.

1 4 7 0 6 7 5 7 2 3



Name: _____

$$y + 12 = 19$$

$$y =$$

$$7 + r = 18$$

$$r =$$

Write an algebraic expression to divide m by 14.

Write an algebraic expression to subtract 54 from z .

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

$$56 \div 8 \quad \bigcirc \quad 8 \div 56$$

$$-58 \quad \bigcirc \quad -56$$

$$534,741 \quad \bigcirc \quad 334,692$$

$$276.246 \quad \bigcirc \quad 138.94$$

$$27 \quad \bigcirc \quad -24$$

$$18 - k = 13$$

$$k =$$

$$r - 6 = 17$$

$$r =$$

The sum of 30 and m is 48.

What is the value of m ?

Write an algebraic expression to subtract 14 from s .

Simplify $4y + 6y$.

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

What is $7z + 60$ when $z = 4$?

Simplify $6s - 4s$.

What is the value of the simplified equation when $s = 5$?

Name: _____

Ready to make equations? There is a missing equation in each box.
Circle the numbers once you find it!

A

90	70	97
+	46	63 95
	18	11 32
	26	91 33

Find an addition fact.

B

42	33	13
+	49	76 12
	93	19 77
	92	85 35

Find an addition fact.

C

67	55	33
+	24	46 25
	90	83 92
	47	89 11

Find an addition fact.

Equations:

Write the equation facts you found.

A	63	+	32	=	95
B		+		=	
C		+		=	

In the number 105,834,567,590, the digit 9 is in what place?

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

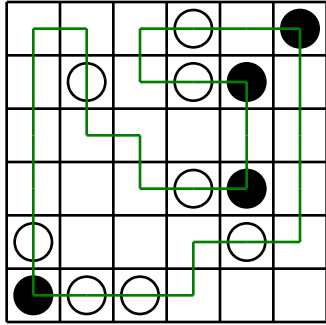
$598 + 625 = \underline{\hspace{2cm}}$

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

Write the numbers 20 to 40 on a sheet of paper.
How many of these numbers are divisible by 2?

$46,953 - 33,921 = \underline{\hspace{2cm}}$

Name: _____

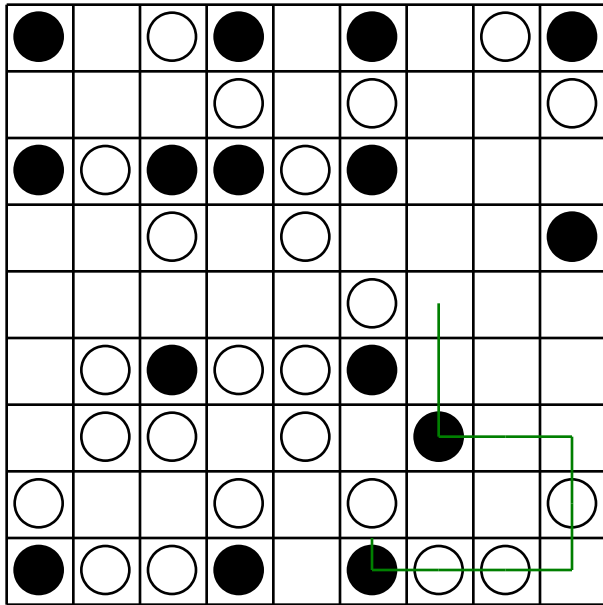


Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn.

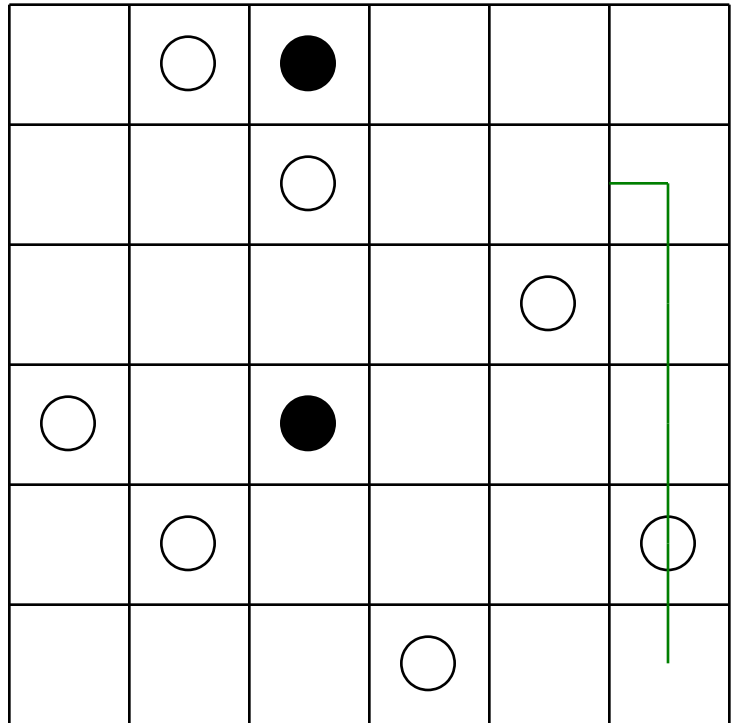
You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

The puzzle on the left shows a correct line going through all the circles.

Finish the line:



Finish the line:



Change $\frac{470}{80}$ to a mixed number.

Reduce $\frac{8}{30}$ to its lowest terms.

Change to percents.

$$\frac{64}{100} =$$

$$\frac{74}{100} =$$

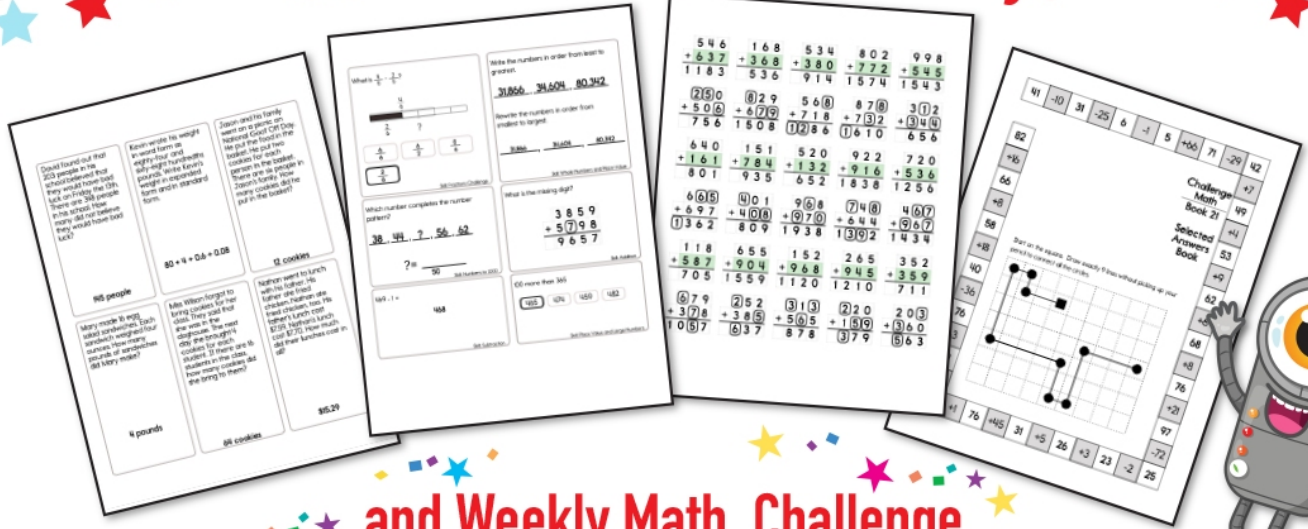
$$\frac{50}{100} =$$

$$\frac{7}{10} =$$

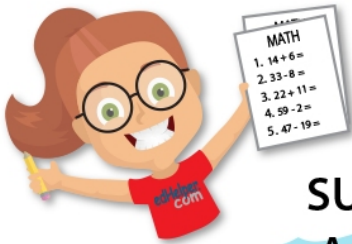
$$\frac{30}{100} =$$

$$\frac{86}{100} =$$

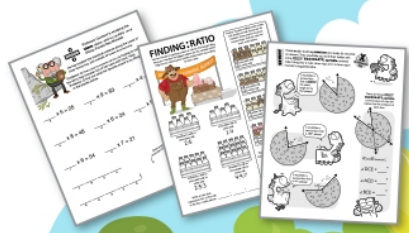
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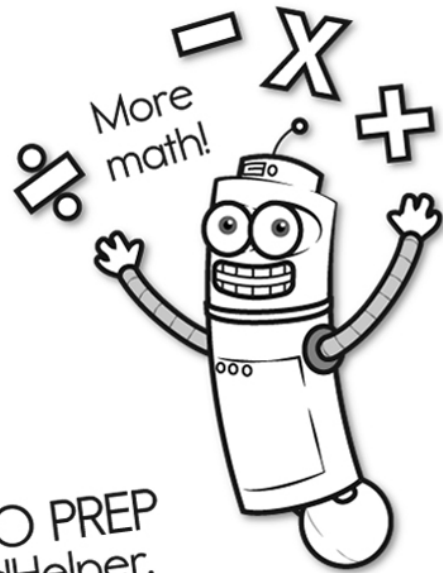
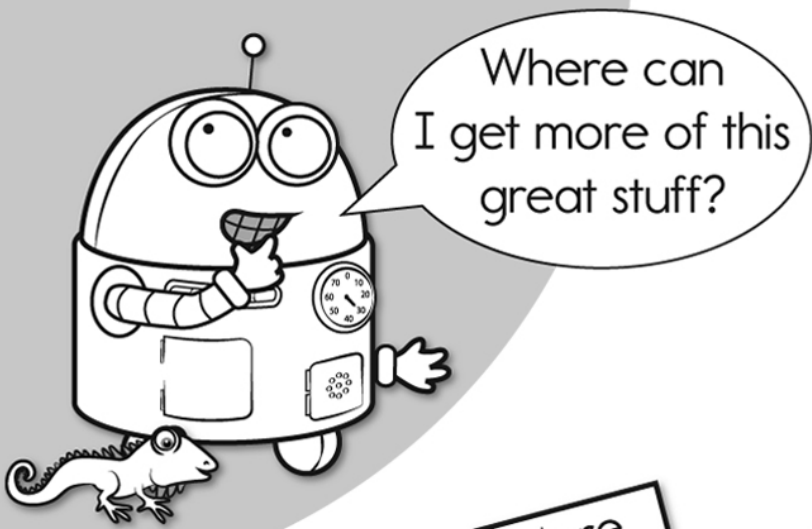
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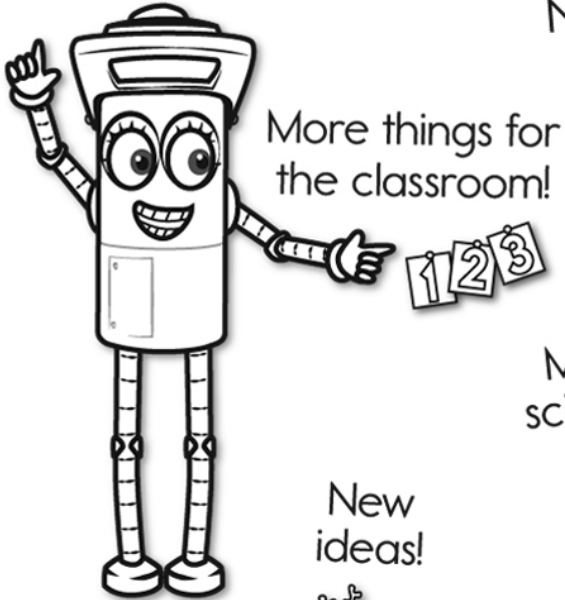
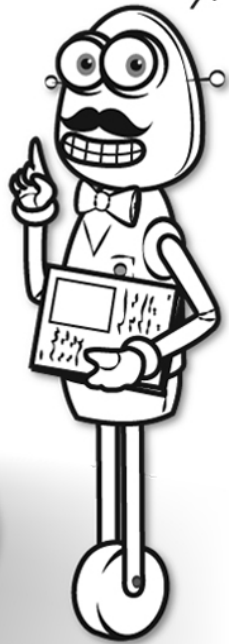
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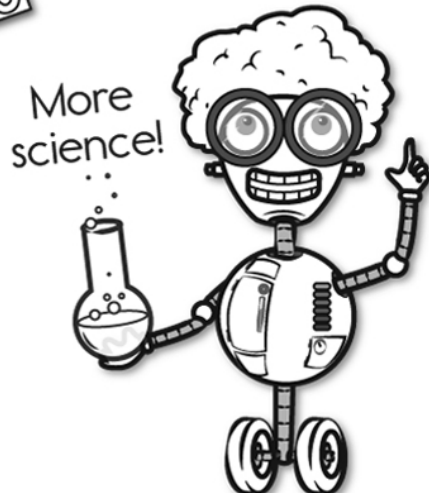


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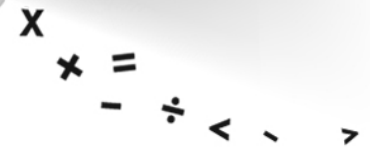
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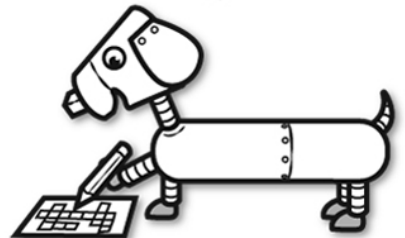
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