

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

Cross off the letter that does NOT belong.

B, E, G, H, K, N, Q, T, W, Z

Why does \_\_\_\_\_ not belong in the pattern?

Cross off the number that does NOT belong.

34, 36, 41, 49, 60, 74, 91, 111, 124, 134, 160, 189, 221, 256, 294

Why does \_\_\_\_\_ not belong in the pattern?

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 6 in your head

multiply 3

add 1

Write the tens digit.

\_\_\_\_\_ A

imagine 2 in your head

add 3

subtract 4

add 8

multiply 11

add 6

Add the tens digit to the ones digit.

Write the sum.

\_\_\_\_\_ B

imagine 9 in your head

multiply 9

subtract 8

subtract 6

Write the odd digit in your answer.

\_\_\_\_\_ C

imagine 4 in your head

multiply 4

double it

subtract 6

Write the tens digit.

\_\_\_\_\_ D

What is the sum?

**A + B + C + D**

\_\_\_\_\_

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

\_\_\_\_\_ e \_\_\_\_\_

3 after 19 \_\_\_\_\_

5 before 14 \_\_\_\_\_

6 after 12 \_\_\_\_\_

1 after 15 \_\_\_\_\_

6 before 12 \_\_\_\_\_

9 after 14 \_\_\_\_\_

8 after 17 \_\_\_\_\_

4 before 15 \_\_\_\_\_

5 after 18 \_\_\_\_\_

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

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

START 9	7	3	8
6	3	2	7
5	3	8	FINISH SUM: 30

$9 + 7 + 3 + 3 + 8 = 30$

START 6	2	4	2
7	8	8	5
1	3	3	FINISH SUM: 20

$6 + 7 + \_ + \_ + \_ = 20$

START 7	7	9	8
8	9	8	8
6	8	7	FINISH SUM: 36

Did you find a path? Write the equation.

START 8	2	3	7
5	1	2	1
7	8	4	FINISH SUM: 23

$8 + \_ + \_ + \_ + \_ = 23$

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

Erin has 9 bags of 7 lollipops. Sara has 4 bags of 10 lollipops. How many more lollipops does Erin have?

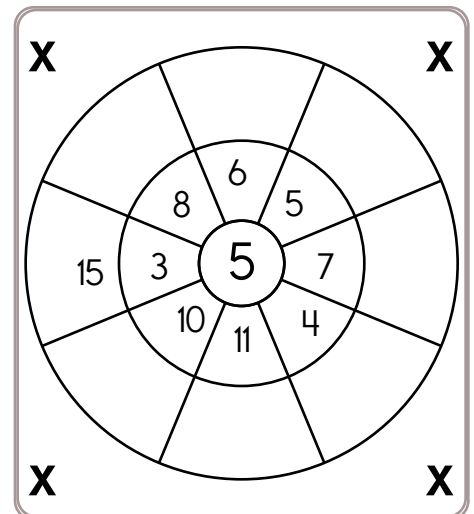
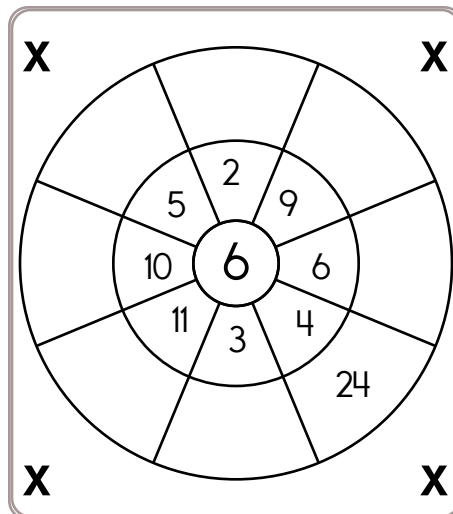
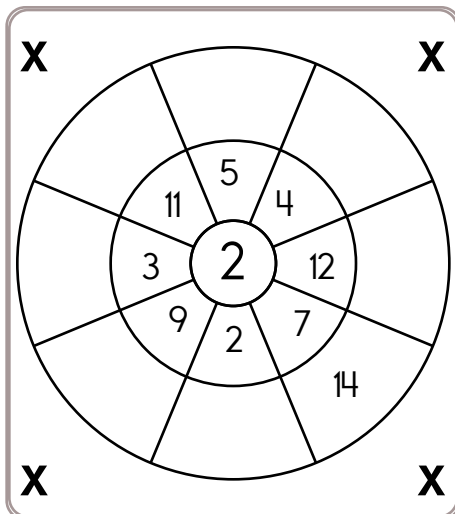
There are 24 breath mints in a box. April has used  $\frac{1}{3}$  of them. How many breath mints are left?

Read the topic. Try to make it better. The first one is done for you.

Topic: the playground

1. jumping off the swing while it is still in motion
2. \_\_\_\_\_

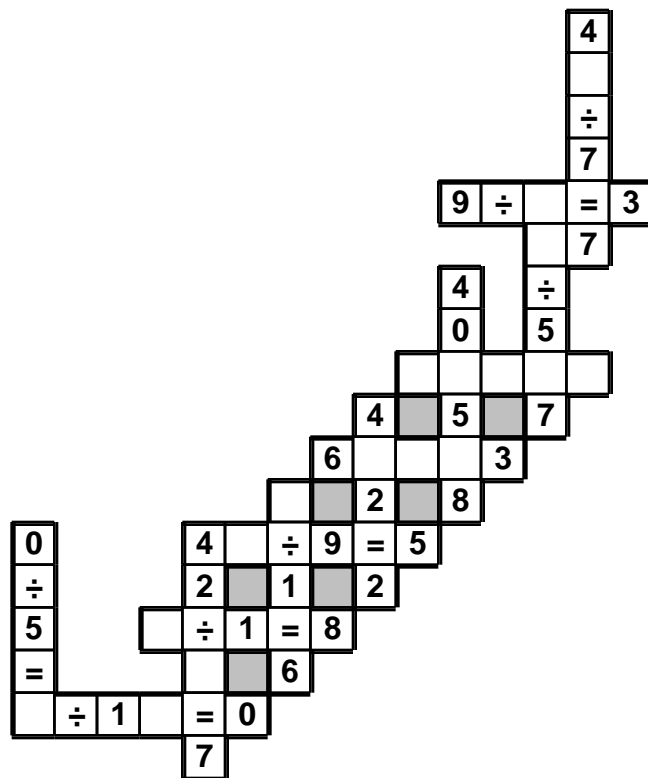
Multiply the numbers by the number in the center.



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

9 • 3 • 5 • 9 • ÷ • 1 • = • 9 • ÷ • 2 • = • 6 • 5 • 8 • 6 • 0  
2

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



Fill in the missing fraction.

$\frac{2}{6}$  ,  $\frac{3}{6}$  , \_\_\_\_\_ ,  $\frac{5}{6}$

$4 \overline{)32}$

$2 \overline{)12}$

$\begin{array}{r} 4 \\ x 4 \\ \hline \end{array}$

If  $j = 15$ , then what does  $j - 7$  equal?  
\_\_\_\_\_

The factors of 10 are \_\_\_\_\_ 5 10

$\begin{array}{r} 48 \\ + 50 \\ \hline \end{array}$

$\begin{array}{r} 45 \\ - 24 \\ \hline \end{array}$

It is 84 degrees Fahrenheit outside. What would you wear if you are going outside?  
\_\_\_\_\_

Do parallel lines intersect?  
\_\_\_\_\_



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

$$\begin{array}{r} 8,268 \\ + 46 \\ \hline \end{array}$$

$$\begin{array}{r} 3,395 \\ - 57 \\ \hline \end{array}$$

$$\begin{array}{r} 6,515 \\ - 75 \\ \hline \end{array}$$

$$\begin{array}{r} 6,772 \\ + 14 \\ \hline \end{array}$$

$$\begin{array}{r} 870 \\ - 303 \\ \hline \end{array}$$

$$\begin{array}{r} 270 \\ + 180 \\ \hline \end{array}$$

$$\begin{array}{r} 1,547 \\ - 683 \\ \hline \end{array}$$

$$\begin{array}{r} 322 \\ + 337 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ - 31 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ - 14 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ + 28 \\ \hline \end{array}$$

$$\begin{array}{r} 80 \\ + 63 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ + 74 \\ \hline \end{array}$$

$$\begin{array}{r} 134 \\ - 93 \\ \hline \end{array}$$

$$\begin{array}{r} 128 \\ - 42 \\ \hline \end{array}$$

$$\begin{array}{r} 81 \\ + 84 \\ \hline \end{array}$$

$$\begin{array}{r} 433 \\ + 612 \\ \hline \end{array}$$

$$\begin{array}{r} 1,107 \\ - 899 \\ \hline \end{array}$$

$$\begin{array}{r} 1,140 \\ - 406 \\ \hline \end{array}$$

$$\begin{array}{r} 922 \\ + 934 \\ \hline \end{array}$$

$$\begin{array}{r} 5,808 \\ - 84 \\ \hline \end{array}$$

$$\begin{array}{r} 6,001 \\ - 85 \\ \hline \end{array}$$

$$\begin{array}{r} 7,744 \\ + 16 \\ \hline \end{array}$$

$$\begin{array}{r} 4,552 \\ + 65 \\ \hline \end{array}$$

$$\begin{array}{r} 6,208 \\ + 52 \\ \hline \end{array}$$

$$\begin{array}{r} 8,253 \\ - 24 \\ \hline \end{array}$$

$$\begin{array}{r} 5,466 \\ - 65 \\ \hline \end{array}$$

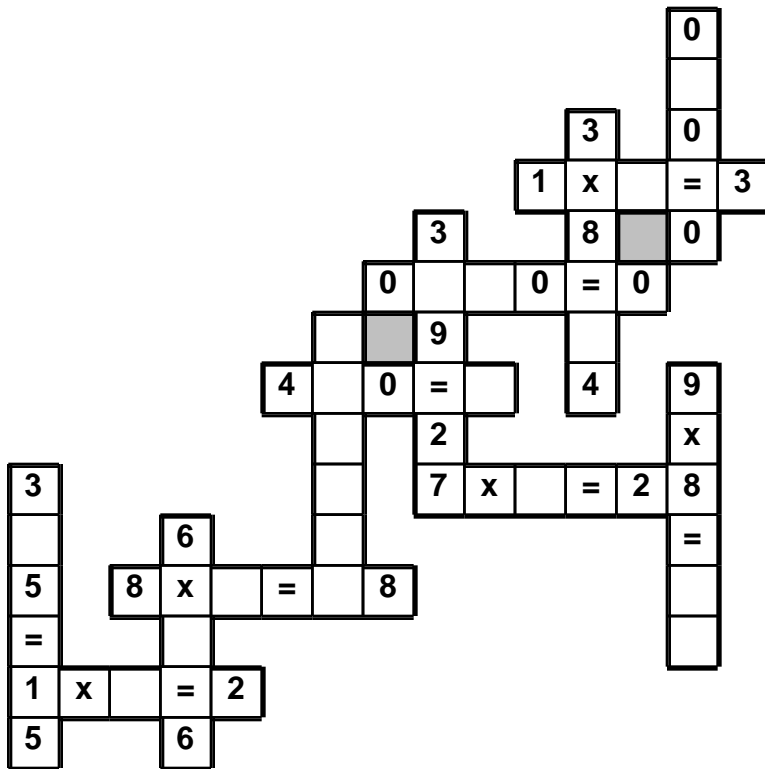
$$\begin{array}{r} 7,561 \\ + 23 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 9 \\ \hline \square \\ + 6 \\ \hline \square \\ - 9 \\ \hline \square \\ + 5 \\ \hline \square \\ + 6 \\ \hline \square \\ - 9 \\ \hline \square \\ + 16 \\ \hline \square \\ 23 \\ + 2 \\ \hline \square \\ + 5 \\ \hline \square \\ 30 \\ + \square \\ \hline \square \\ 34 \\ + \square \\ \hline \square \\ 36 \end{array}$$

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

$$x \cdot 3 \cdot x \cdot 1 \cdot 6 \cdot 2 \cdot x \cdot 0 \cdot 9 \cdot = \cdot 4 \cdot x \cdot 5 \cdot 6 \cdot 4 \cdot 7 \cdot 1 \\ 2 \cdot 2$$

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



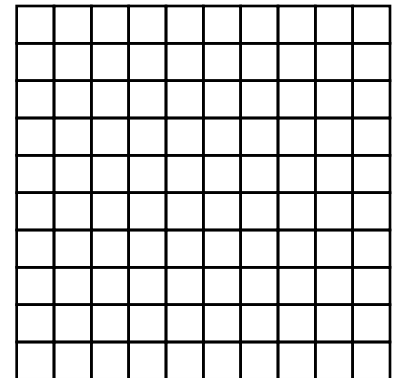
Name the polygon that has ten vertices.

\_\_\_\_\_

What is a good estimate for 12 times 649?

\_\_\_\_\_

Color  $\frac{5}{10}$ .



Write an odd number with a nine in the thousands place.

\_\_\_\_\_

Write the number with 5 thousands and 4 ones.

\_\_\_\_\_

Which is longer: one foot or fourteen inches?

\_\_\_\_\_

If  $J = 6$ , then what does  $J + 9$  equal?

\_\_\_\_\_

$$\begin{array}{r} 37 \\ + 30 \\ \hline \end{array}$$



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

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

$$(6 + 8) + 12 = 26$$

$$10 + (1 + 3) = 14$$

$$8 - 3 + 1 = 4$$

$$8 - 3 + 1 = 6$$

$$11 - 7 + 1 = 3$$

$$11 - 7 + 1 = 5$$

$$5 + 1 + 11 = 17$$

$$3 + 10 - 1 = 12$$

$$12 - 1 + 1 = 12$$

$$9 + 10 - 1 = 18$$

$$10 - 8 + 1 = 1$$

$$1 + 7 + 2 = 10$$

$$5 + 10 - 7 + 3 = 11$$

$$5 + 3 + 3 + 11 = 22$$

$$8 + 6 - 4 + 11 = 21$$

$$1 + 5 - 1 + 7 = 12$$

$$1 + 5 - 5 + 5 = 6$$

$$5 + 8 - 9 - 6 = 10$$

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

Find the way from START to END by passing only through numbers that are multiples of twelve.

You are not allowed to go diagonally. Good luck!




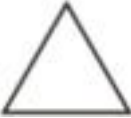
START	0	636	624	492	672	818	172	871	219
756	552	469	659	792	336	938	814	61	743
953	447	827	0	696	981	935	743	896	280
370	276	864	396	81	117	197	777	143	441
529	768	852	372	121	206	846	451	851	941
883	34	18	612	432	153	379	515	353	458
517	220	552	996	228	885	414	767	812	651
877	986	300	612	84	505	213	673	475	846
559	543	301	264	252	910	416	339	880	646
811	983	482	936	984	792	588	840	156	END

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

Each row, column, and box must have the numbers 1 through 6. The first box is done.

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

Each row, column, and box must have 4 different pictures.



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

Find 2 equations hidden in each box. Good luck!

85 x 2  
658  
37  
98  
94 x 7

180  
38  
170

23  
75 + 4  
246  
26 + 2

15 x 3  
99 x 9  
31

Write 2 equations: \_\_\_\_\_

27 + 9

64  
96  
14

62 + 4  
55 x 1  
504

36  
39  
91 x 4

62  
7 + 37

8 + 54  
98

Write 2 equations: \_\_\_\_\_

37 x 4  
78  
39 x 8  
34 + 33  
65

27 x 2  
31 x 2  
75 x 7  
62

46 x 4  
388  
54  
36

Write 2 equations: \_\_\_\_\_

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

### Color Squares Puzzle

Color in the number of consecutive boxes in each row and column. Double check when you are done!

	A	B	C	D	E	F	G	H	I	J
	4	10	3	2	2	1	1	1	1	1
K 1										
L 1										
M 1										
N 1										
O 1										
P 1										
Q 2										
R 3										
S 10										
T 5										

- CLUE A: Color in 4 consecutive boxes.
- CLUE B: Color in all the boxes in this column.
- CLUE C: Color in 3 consecutive boxes.
- CLUE D: Color in 2 consecutive boxes.
- CLUE E: Color in 2 consecutive boxes.
- CLUE F: Color in 1 box.
- CLUE G: Color in 1 box.
- CLUE H: Color in 1 box.
- CLUE I: Color in 1 box.
- CLUE J: Color in 1 box.
- CLUE K: Color in 1 box.
- CLUE L: Color in 1 box.
- CLUE M: Color in 1 box.
- CLUE N: Color in 1 box.
- CLUE O: Color in 1 box.

- CLUE P: Color in 1 box.
- CLUE Q: Color in 2 consecutive boxes.
- CLUE R: Color in 3 consecutive boxes.
- CLUE S: All the boxes in this row are black.
- CLUE T: Color in 5 consecutive boxes.

Don't forget to double check when you are done!

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

Each box needs a number from 1 to 9. You may re-use numbers.

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

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

Locate where to put the number 323,000 and label the point M.

314,000 334,000

What is the value of the BIG digit?

**4**,796,180

\_\_\_\_\_

Fill in the boxes so each line equals 11.

11		
□	-	1
□	÷	2
□	x	1
( 5	+	□
		) + □

What is the mode of these numbers?

20, 15, 20, 23, 18, 16, 16, 20, 18, 18, 16

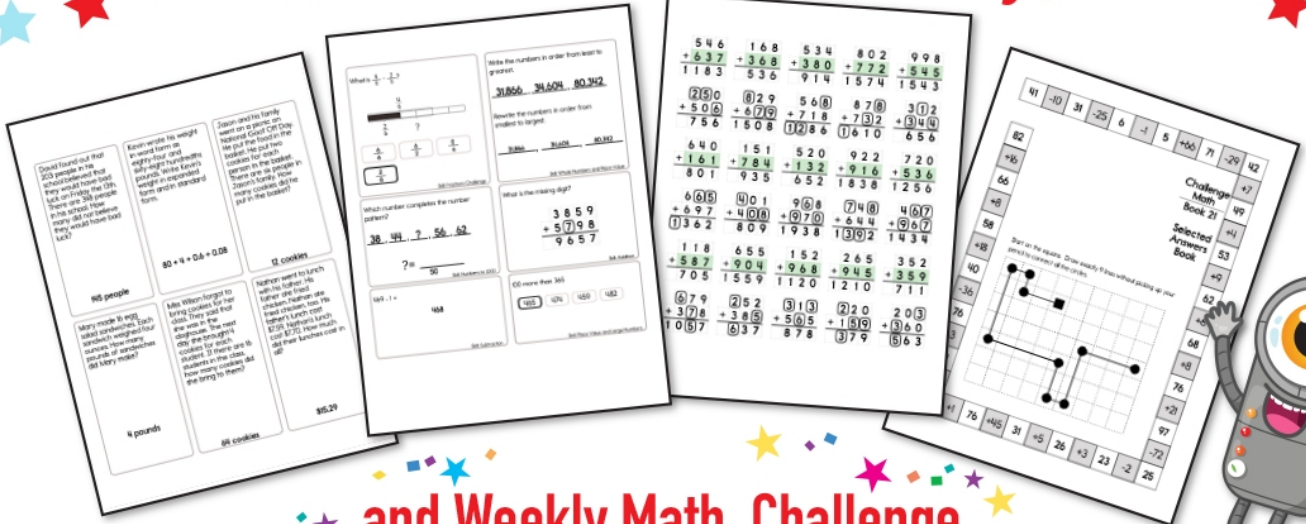
\_\_\_\_\_

Max's birthday is in February. Erin's birthday is three months after Max's birthday. What month is Erin's birthday?

\_\_\_\_\_

- brass
- bress
- bres
- brus

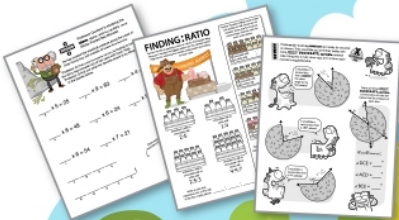
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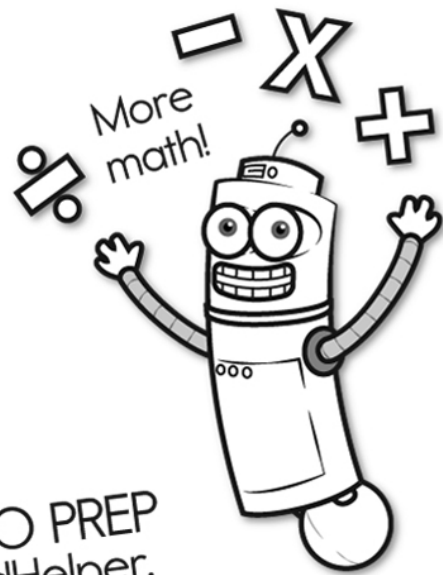


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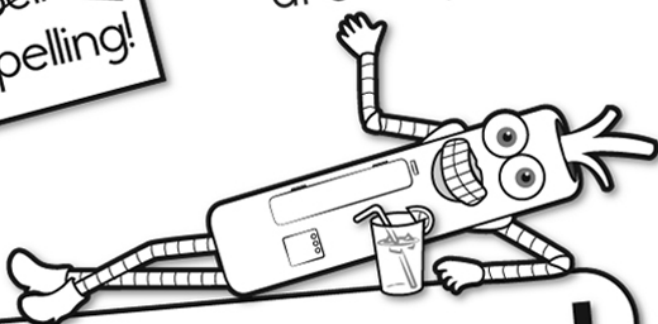
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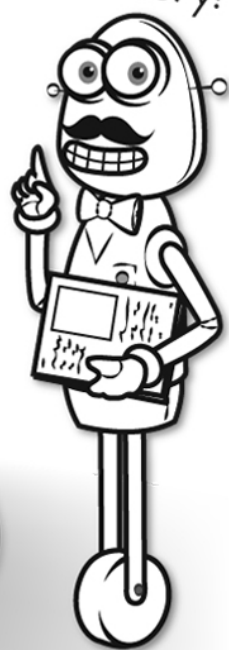


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More history!



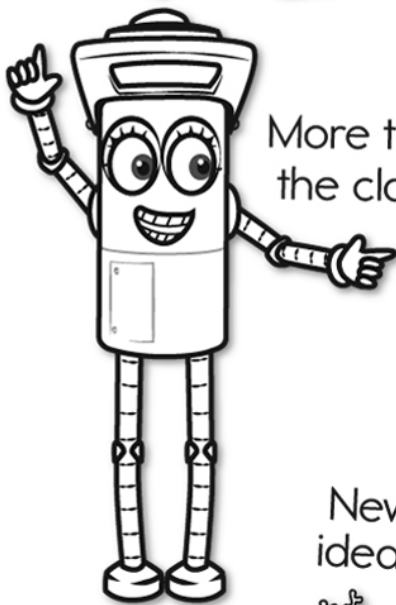
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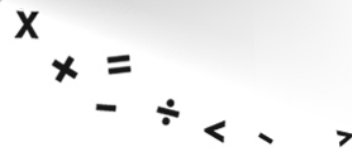
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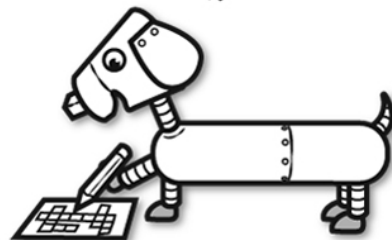
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