

Name: _____

Complete each pattern, using the same rule. Write what the rule is.

6, 6, 7, 7, 7, 6, 6, 6, 7, 7, 7, 6, 6, 6,

6, 7, 7, 7, 6, 6, 6, 6, 6, 7, _____, _____, _____, _____

9, 9, 1, 1, 1, 9, 9, 9, 1, 1, 1, 9, 9, 9,

9, 1, 1, 1, 9, 9, 9, 9, 9, 1, _____, _____, _____, _____

Complete each pattern. Write what the rule is.

_____, _____, 154, 130, 108, 88, 70, 54, 40, 28, 18, 10

246, 218, 192, 168, _____, 126, 108, 92, _____, _____, 56, 48

261, 231, 203, 177, 153, _____, _____, _____, _____, 63, 51, 41, 33

Name: _____

Jacob wrote a report on superstitions for Friday the 13th. He found that there were many more superstitions than he had thought. One he found said that pulling out a gray or white hair will cause 10 more to grow in its place. If this was true and his mother pulled out 7 gray hairs, how many gray hairs would grow on her head then?

The Blackstone Carpet Company has been hired to carpet the 15 offices on the first floor of the new skyscraper. They will need $38\frac{1}{2}$ square yards of charcoal patterned carpet and $17\frac{2}{3}$ square yards of plain gray carpet for each office. How much carpet will they need to complete the job?

The Farmers' Market charges \$4.11 for a jar of apple butter. The clerk multiplies the price by 1.08 to find the total cost including tax. Mrs. Clark bought 3 jars of apple butter. How much change would she get from a twenty dollar bill?

If 7 of 19 four-square courts had blue lines and the rest had white lines, what percent of the courts had white lines?

Megan has 3 red shirts, 2 pink shirts, and 4 yellow shirts. If she closes her eyes and chooses one shirt at random to wear on Compliments Day, what is the probability that she will not choose a yellow shirt?

Name: _____

David saw a sign in the hardware store that read, "Masking tape: \$1.76 per roll or \$10 for a box of 6 rolls". How much will David save if he buys a box of masking tape instead of 6 separate rolls?

The city's Freedom Memorial Garden was enclosed by a fence put up in the shape of a parallelogram with a base of 145 feet and a height of 93 feet. What was the area of the garden?

The cost of a grocery cart at Manufacturer's Warehouse is \$140 without a child seat and \$170 with a child seat. What is the ratio of the cost without a child seat to the cost with a child seat? Express your answer as a fraction in lowest terms.

Sarah decided to make 5 dozen cookies for the Just Because Festival at her school. The recipe called for $\frac{1}{2}$ of a cup of chips for each cup of flour used. If Sarah uses $5\frac{2}{3}$ cups of flour, how many cups of chips will she need?

According to one survey, 91.3% of people said they just couldn't let it go when someone hurts their feelings. If the survey included 2,000 people, how many of them said they can't let go of their hurt feelings?

A roll of $\frac{1}{2}$ -inch wide masking tape costs \$0.60 per yard. A roll of $\frac{3}{4}$ -inch wide masking tape costs \$0.86 per yard. How much more does a 60 yard roll of $\frac{3}{4}$ -inch wide masking tape cost than a roll of $\frac{1}{2}$ -inch wide tape?

Name: _____

<p>The Midtown Thrift Shop had total sales of \$415.35. Of that amount, \$273.27 was for clothing. How much of the total sales was not for clothing?</p>	<p>Mr. Martin is building a stage for the public speaking contest. The stage is $18 \frac{1}{4}$ feet wide and $15 \frac{3}{4}$ feet long. What is the area of the stage?</p>	<p>Jacob wanted to sleep for $13 \frac{3}{4}$ hours. He went to bed at 9:47 p.m. and woke up at 7:28 a.m. How much less than $13 \frac{3}{4}$ hours did he sleep?</p>
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<p>Mary rolls a die. What is the chance of her rolling a 4?</p> <p>_____</p>	<p>$9 \times 6 =$ _____</p>	<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>
<p>$33 \div 11 =$ _____</p>	$\begin{array}{r} 49 \\ - 36 \\ \hline \end{array}$	

$\begin{array}{r} 49 \\ + 47 \\ \hline \end{array}$	<p>$8 \times 4 =$</p>	$\begin{array}{r} 413 \\ - 307 \\ \hline \end{array}$	$\begin{array}{r} 455 \\ + 458 \\ \hline \end{array}$
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Name: _____

<p>Circle the digit in the tenths place.</p> <p>61.933</p>	<p>$6,437 - 2,346 =$ _____</p>
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<p>How many centimeters are in 80 millimeters?</p> <p>_____ centimeters</p>	<p>14 lb = _____ oz</p>
---	-------------------------

<p>What should replace the S in this equation?</p> <p>$48 \div 24 + S = 10$</p>	<p>$156 + 335 =$ _____</p>
	<p>What time is 13 hours after 3:00 a.m.?</p> <p>_____</p>

<p>1 cm = 10 mm</p> <p>18 cm = _____ mm</p>	<p>$24 \div 8 =$</p>	<p>You have four digits to use in an addition problem: 5, 7, 6, and 1. Make up a problem where you have two 2-digit numbers. What is the largest sum you can make?</p>
<p>$72 \div 6 =$ _____</p>		
<p>$9 \times 10 =$</p>		

<p>Circle the addition property for $65 + 92 = 92 + 65$.</p> <p>associative property commutative property</p>	<p>$742 - 198 =$ _____</p>
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<p>$6 \div 3 =$ _____</p>	<p>$12 \div 2 =$ _____</p>	<p>$89,717 - 83,367 =$ _____</p>
--------------------------------------	---------------------------------------	---

Name: _____

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

eight hundred eighty-nine thousand, six hundred sixty-nine

The letters D and M each have a line of symmetry. Name another letter between D and M that has a line of symmetry.

Can 450 be evenly divided by 6? Circle:
 450 is evenly divisible by 6
 450 is NOT evenly divisible by 6

$6,879 - 6,747 =$ _____

$33 \div 3 =$ _____

$48 \div 8 =$ _____

$88 \div 11 =$ _____

The boys in your class each were given a ticket with a number on it. The numbers given out were: 32, 12, 16, 22, 7, 10, 40, 37, 14, 30, 15, and 27. One ticket will be picked from a hat. What are the chances that the winning ticket number is divisible by 4?

$32 \div 4 =$ _____

$81,628 + 55,993 =$ _____

Circle the greatest number:

2,653
 5,276,109
 483,860,479,132
 897,104

Can 241 be evenly divided by 11? Circle:
 241 is evenly divisible by 11
 241 is NOT evenly divisible by 11

Name: _____

Jennifer, Ashley, Brian, and Sean each have a car. This year, they each drove a different distance. The distances were: 2,848, 2,579, 2,461, and 2,096 miles. The speedometer on each of the cars keeps track of the total number of miles the cars have been driven. The current speedometer numbers on the cars are 54,896, 53,597, 53,847, and 53,723 miles.

Figure out how many miles each person drove their car for this year and the total number of miles that has been driven (the current speedometer reading).

1. The combined total miles that Ashley and Jennifer have put on their cars, rounded to the nearest hundreds, is one hundred seven thousand, three hundred.
2. The person that drove two thousand, ninety-six miles this year does not have a speedometer reading of fifty-four thousand, eight hundred ninety-six.
3. Sean drove one hundred twenty fewer miles than Jennifer this year, rounded to the nearest tens.
4. Ashley drove more than 2,300 miles this year.
5. The person that drove two thousand, ninety-six miles this year does not have a speedometer reading of fifty-three thousand, seven hundred twenty-three.

Jennifer drove _____ miles this year. His or her car's speedometer reads _____ miles.

Ashley drove _____ miles this year. His or her car's speedometer reads _____ miles.

Brian drove _____ miles this year. His or her car's speedometer reads _____ miles.

Sean drove _____ miles this year. His or her car's speedometer reads _____ miles.

$12 \times 10 =$ _____

Circle the smallest number:

936,864

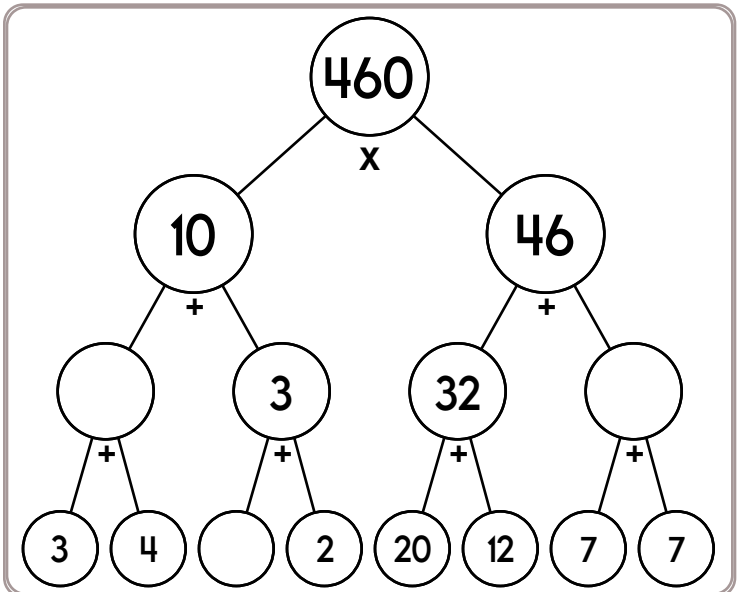
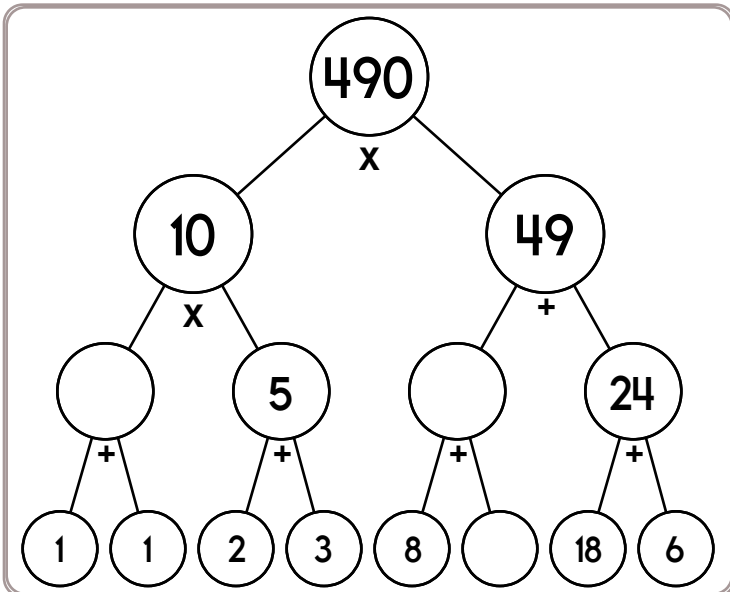
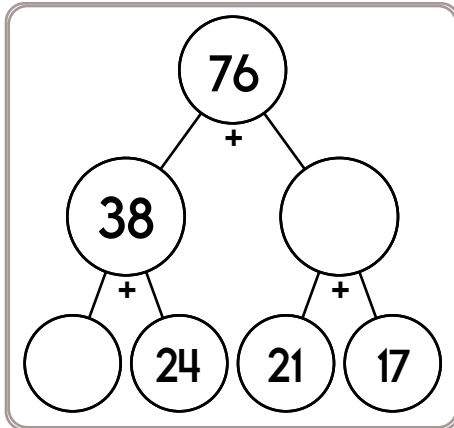
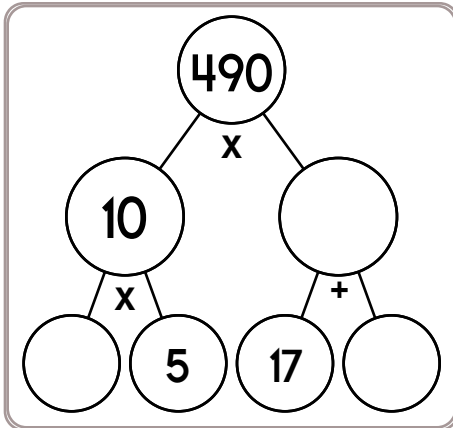
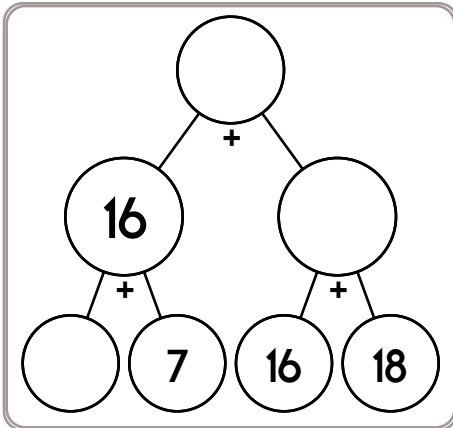
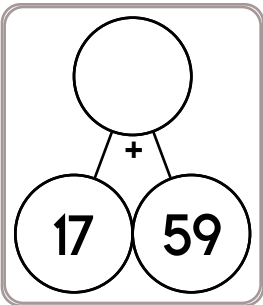
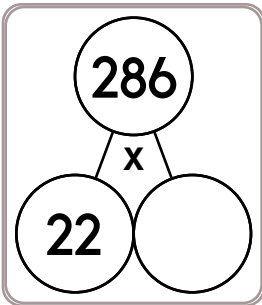
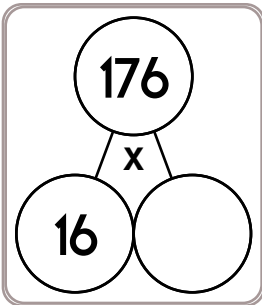
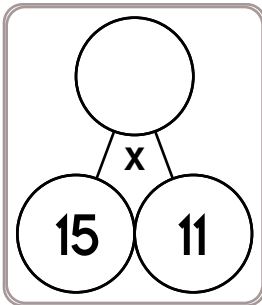
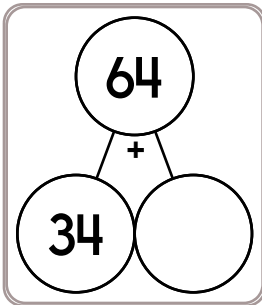
6,481,307

5,702

5,290,587,124

For 6,758,240,953, write the digit that is in the ten thousands place.

Name: _____



$$\begin{array}{r} \frac{3}{6} \\ \frac{3}{6} \\ + \frac{4}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 6.657 \\ + 697.3 \\ \hline \end{array}$$

$$\begin{array}{r} 6,678 \\ 827 \\ + 474 \\ \hline \end{array}$$

Name: _____

Write the place value that is 1,000 times as great as the ones place.

David and Hannah are doing their math homework. Their teacher gave them each 24 pages of math facts to practice. Each page has 8 rows and 7 columns of problems. David can do a row of problems in about 7.2 seconds. Hannah is faster. She can do a row of problems in 6.7 seconds.

How much time will David need to finish his math homework?

Name: _____

Robert was having so much fun making cupcakes for his class. He made $2\frac{1}{2}$ dozen of them! But there are only 21 kids in his class. Everyone ate one cupcake except for Maria, who does not like cupcakes. How many cupcakes are left over?

Which digit is in the ten thousands place in the number 496,832,175?

Write the number that this digit represents.

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 8 in your head

add 5

add 9

Write the tens digit.

_____ A

imagine 4 in your head

multiply 12

add 5

subtract 9

Write the ones digit.

_____ B

imagine 6 in your head

double it

subtract 8

add 7

add 1

add 3

Add the tens digit to the ones digit.

Write the sum.

_____ C

imagine 8 in your head

double it

add 3

subtract 8

add 2

add 7

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 _____

2 before 18 _____

2 after 17 _____

3 before 12 _____

6 before 17 _____

5 after 15 _____

1 before 14 _____

7 before 16 _____

9 after 13 _____

4 before 15 _____



Name: _____

Can you guess the word?

No duplicate letters can be used.

V A N I S H

The letter V is in the word
and is in the correct spot.

R **E** C A N T

The letter E is in the word,
but E is not in that spot.

A B C D E F G H I J K L

A list of letters will be given that
have not been used. Good luck!

Hint: There are no duplicate letters in the answer.

F **A** **U** **C** **E** **T**

C **O** **U** **R** **S** **E**

B D G H I J K L M N P Q V W X Y
Z

Let's check if you guessed correctly. Look across or
down to find the correct answer.

O A C M E F C Z U S N F A E S F U R T
V W A C O E D S F A U C E T C E C L C
E C R R E A S A T T T R W K E I C A U
G A C E I R I R C E R E T S T U O S M
U E K R E I F E W L Z C E A R O U R C
U E U O I T R I Q C E R S U V C R U H
O E O U X T R U Y R T U R R C E S O C
U U S U T U Q C R U I S E C C S E E C

Hint: There are no duplicate letters in the answer.

A **B** **J** **U** **R** **E**

H **U** **M** **B** **L** **E**

B **U** **N** **D** **L** **E**

C F G I K O P Q S T V W X Y Z

Let's check if you guessed correctly. Look diagonally
to find the correct answer. (DIAGONAL!)

E N U N A B T B B U C K I N L
E I U E B B J L J U U E Q J V
R T B B L U J E L B N B D R R
B B A L I A U U A B I D N R L
L U D D B L M R R U R L L U E
Y E D E U I E D B E N B N E N

Hint: There are no duplicate letters in the answer.

P **R** **E** **A** **C** **H**

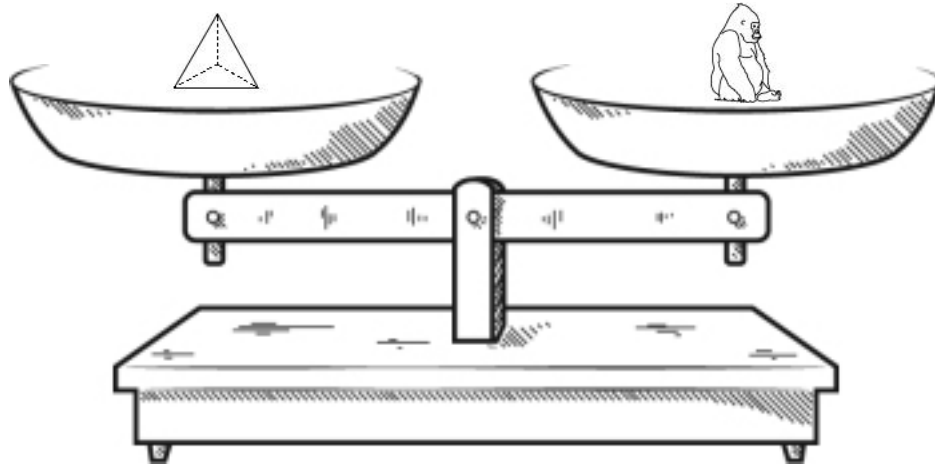
P **A** **L** **T** **R** **Y**

B D F G I J K M N O Q S U V W X
Z

Let's check if you guessed correctly. Look diagonally
to find the correct answer. (DIAGONAL!)

L A H P P E H A D A H A Y S P P L Z P
T T Y Y R A A Y Y P W T O P Y C A A H
R R H V P E R J E R P Y A P A R J R K
L A Y I P P A I P X W E Z F A L U K T
A X G P P E P C T F Q R C R Y V T R V
C C P T R P T R H Y E I H J A A P R X
T R Y C T E U G I A P Q Z Y I R E I Y
T H Y P R R A E A C E X L U E D A K H

Name: _____



True False

True False

True False

True False

True False

True False

Did you find that two are true? If not, look again!

You should only mark TRUE if you are absolutely sure it is correct!

Write the decimal number for:
seventeen ten-thousandths

$$\begin{array}{r} 8,253,406 \\ - 973,890 \\ \hline \end{array}$$

Change 14% to a decimal.

Name: _____

Sudoku Sums of 10

Each row, column, and box must have the numbers 1 through 9.
 Hint: Look for sudoku sums. The sum of the two boxes inside of the dashed lines is 10.

Here is an example of a sudoku sum of 10:

2	8
---	---

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

Write the ratio as a fraction in lowest terms.
 9 to 4

Change to a fraction.
 19%

1 is what % of 16?

Name: _____

Each row, column, and box must have the numbers 1 through 9.

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

$$503 \div 10$$

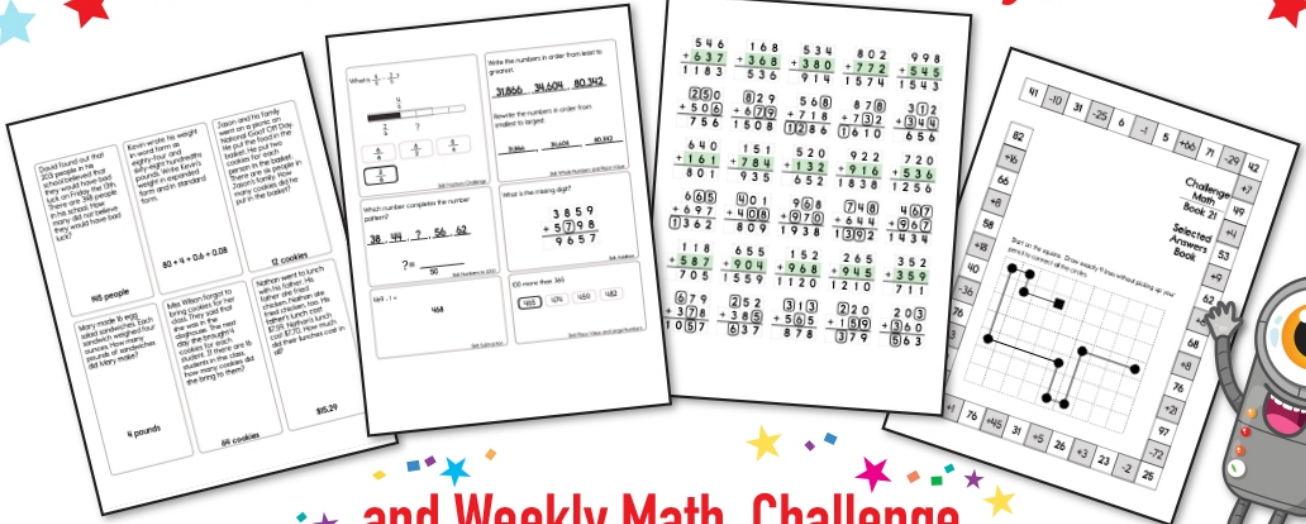
$$\frac{1}{11} \div \frac{29}{33} =$$

What is the greatest common factor of the numbers 96 and 60?

$$56,623 - 34,118 = \underline{\hspace{2cm}}$$

$$36 \div 6 = \underline{\hspace{2cm}}$$

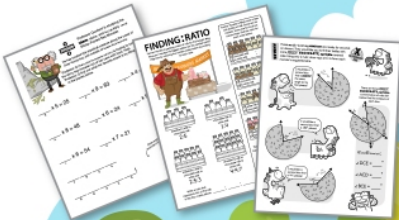
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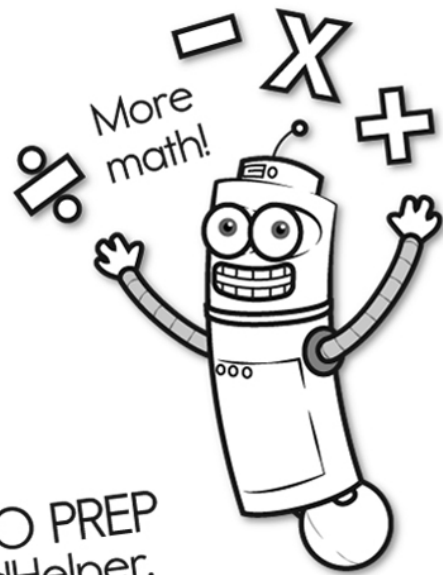
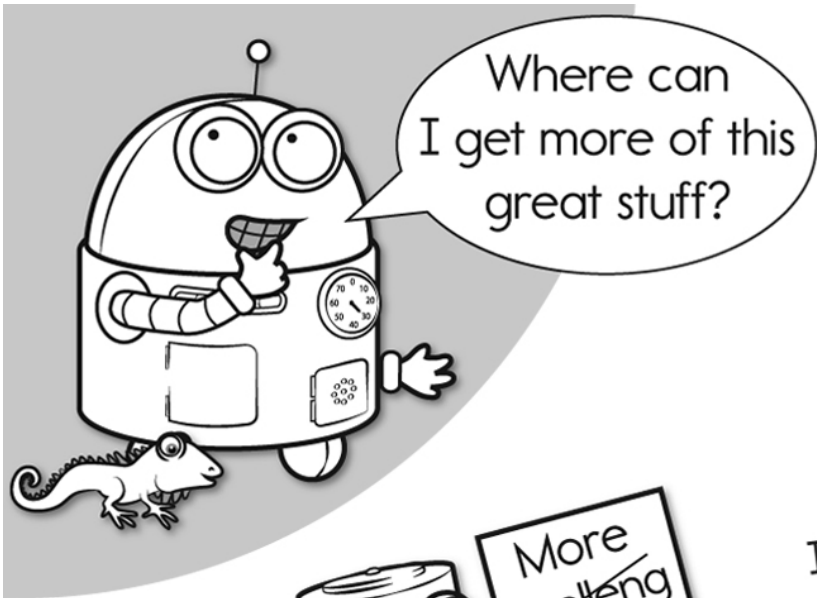
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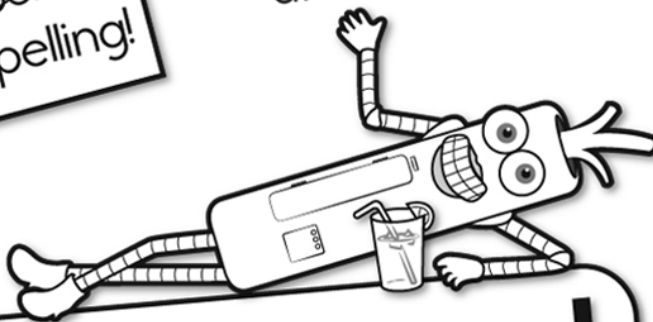


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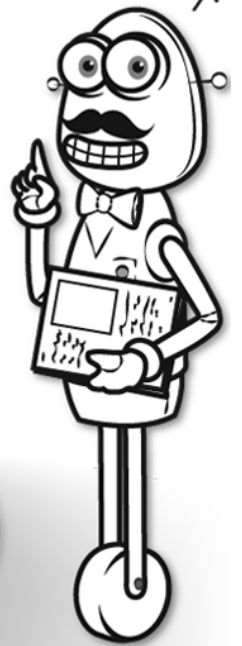


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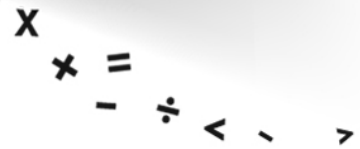
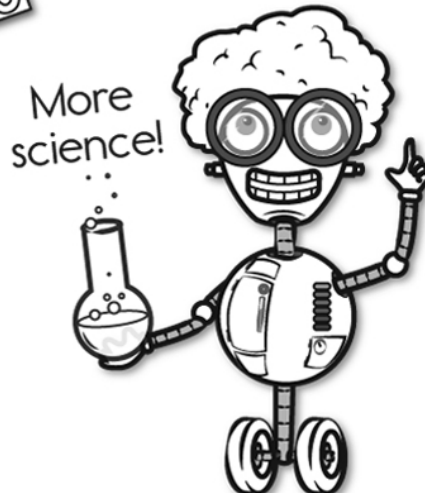
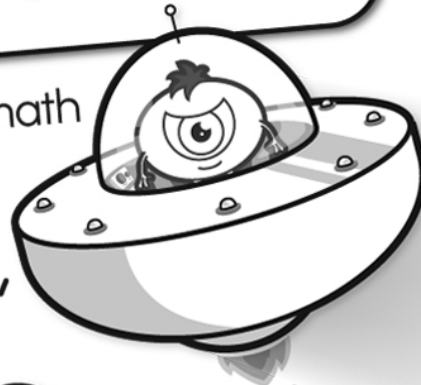
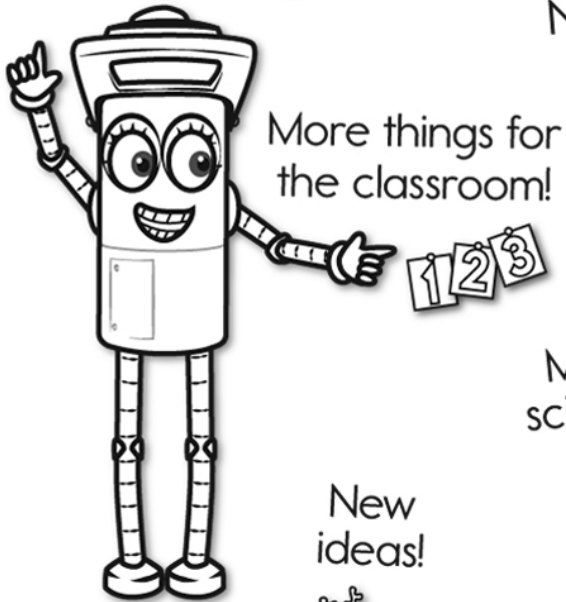
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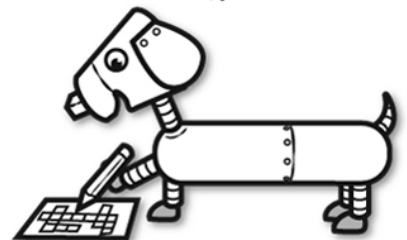


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