

Name: _____

This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.

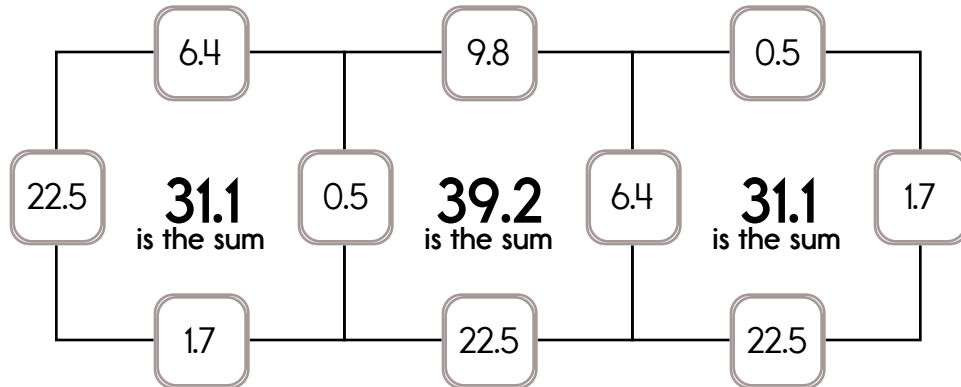
Example:

$$22.5 + 0.5 + 6.4 + 1.7 = 31.1$$

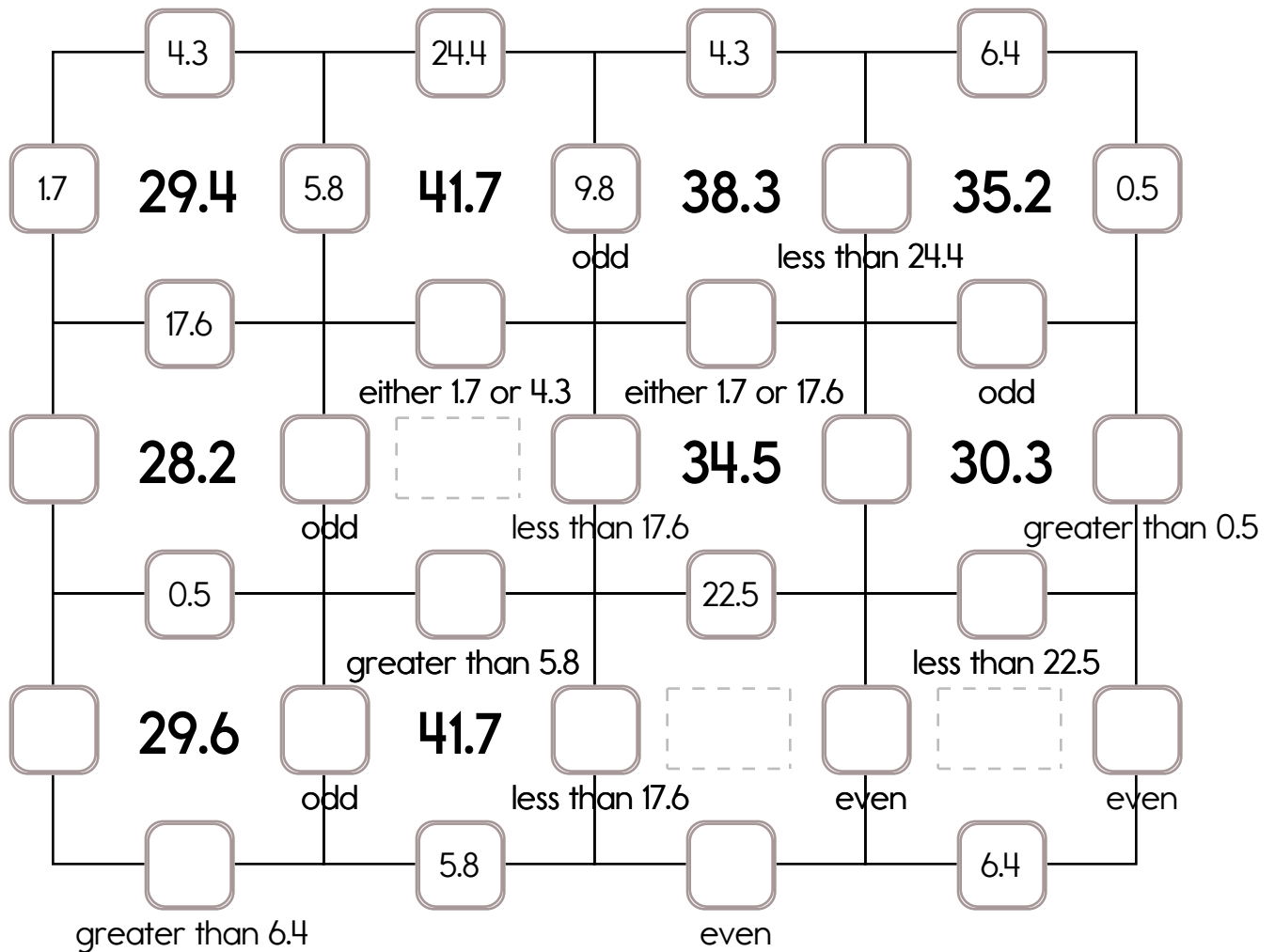
Example:

$$6.4 + 1.7 + 0.5 + 22.5 = 31.1$$

Sample:



Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: 17.6, 22.5, or 24.4. The other three numbers have to all be DIFFERENT and must be from these: 1.7, 9.8, 6.4, 5.8, 0.5, or 4.3.



Name: _____

Madame Sarah is retiring from teaching tap and ballet. She has taught for 22 years and 1,632 students have been in her classes. If 1.7% of her students have become famous dancers, how many of her students have not become famous dancers?

On the last day of school the high school classes participated in a field day. Emily did not finish the 3K run, but she ran $2\frac{4}{5}$ miles in $20\frac{1}{2}$ minutes. How many minutes did it take her to run one mile?

Jen is really into science. She invented a robotic bug that burps. Her brother loved it, so she wanted to send the robot to her brother. She checked her phone, and her brother is currently 2.6 miles away. After she set the coordinates on the phone, the robotic bug left. She got a burp confirmation 161.2 seconds later when it reached her brother. How fast did this robotic bug travel in miles per hour? Round your answer to the nearest mile. Hint: Convert time to hours. Then divide the miles by the time in hours.








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

Mrs. Hall 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 4 to 5. Each side of the shape must have a length that is a whole number of inches."

Sarah wants to draw the biggest rectangle on her 16.5-inch by 25.5-inch piece of paper. What size should she draw the rectangle?

Name: _____

Puzzle:

8			288
		8	240
			180
240	180	288	X










Work Area:

8			288
		8	240
			180
240	180	288	X

The product for each column and row is given. Blanks use numbers 2 to 9 only.

 = _____  = _____




Puzzle:

			180
			60
			150
180	150	60	X

Work Area:

			180
			60
			150
180	150	60	X

The product for each column and row is given. Blanks use numbers 2 to 9 only.

 = _____  = _____  = _____

$(5 + 9) + 8 =$

Name: _____

9 • 2 • 4 • 4 • 3 • 4 • ÷ • 0 • 0 • = • 1 • 6 • ÷ • 4 • = • 4
 0 • 6 • =

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

The puzzle grid contains the following elements:

- Top row: [] x 8 = 7 []
- Row below: [] x []
- Row below: 3 x 8 = 2 []
- Row below: [] = []
- Row below: 2 x 7 = 1 []
- Row below: [] x []
- Row below: [] 9 [] 2 ÷ [] = 8
- Row below: 2 1 [] 7 = 3 [] x []
- Row below: x [] 9 6 [] [] []
- Row below: 0 [] [] [] [] [] [] []
- Row below: = [] 1 [] x [] 3 [] 0
- Row below: [] [] [] = [] []
- Row below: 4 x 5 [] 2 0
- Row below: [] 6 []

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

$$\begin{array}{r} 455 \\ - 271 \\ \hline \end{array}$$

Jenna cannot open her locker. She knows that the four numbers are: 7, 28, 29, and 31, but she cannot remember the order of the numbers. How many different combinations are there? List ten of them.

$$\begin{array}{r} 345 \\ + 338 \\ \hline \end{array}$$

$11 \times 10 =$

$$\begin{array}{r} 49 \\ + 20 \\ \hline \end{array}$$

$$\begin{array}{r} 59 \\ - 32 \\ \hline \end{array}$$

Name: _____

The equation $26 \div 13 + 18 = 20$ uses three different numbers and two different operations.

Make up your own equation which also has three different numbers and two different operations. The answer to your equation needs to be 27.

$15 \text{ km} = \text{_____ m}$

$66 \div 6 =$

$1 \text{ kg} = 1,000 \text{ g}$

$18 \text{ kg} = \text{_____ g}$

$10 \times 4 =$

$267 + 626 = \text{_____}$

How many centimeters are in 60 millimeters?

_____ centimeters

Write the numbers 50 to 80 on a sheet of paper.

How many of these numbers are divisible by 3?

$72 \div 8 = \text{_____}$

$42 \div 6 =$

$5 \times 10 = \text{_____}$

$48 \div 4 =$

$915 - 849 = \text{_____}$

What time is 13 hours after 2:00 p.m.?

$6 \div 2 = \text{_____}$

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

Name: _____

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

<input type="text"/>	V	I	N	G	S	B	C	E	B
V	<input type="text"/>	M	G	L	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	R
<input type="text"/>	P	P	R	<input type="text"/>	N	T	P	C	<input type="text"/>
L	P	E	<input type="text"/>	B	<input type="text"/>	T	<input type="text"/>	C	G
<input type="text"/>	L	R	P	<input type="text"/>	T	L	B	<input type="text"/>	<input type="text"/>
N	Y	A	<input type="text"/>	L	<input type="text"/>	<input type="text"/>	L	S	D
C	L	T	A	I	R	N	<input type="text"/>	S	M
H	B	I	A	P	<input type="text"/>	R	L	<input type="text"/>	R
<input type="text"/>	V	V	S	L	A	H	<input type="text"/>	R	B
S	A	E	C	<input type="text"/>	V	<input type="text"/>	<input type="text"/>	D	B

RIGID • AVALANCHE • GRIPE
CAPABLE • PARLOR • SENATOR
ACCESS • IMPERATIVE • AVOID
APPLY • GLOBAL • BATTLE • HERB

9 x 4 = _____

84 ÷ 7 = _____

6 x 3 = _____

What Words? Your Words!

Fill in the boxes with letters to make words. Each box is worth points. Earn points by filling in as many boxes as you can. Sum up the points you earn for each word.

Make a Word

Sum

	1	2	4	6	10	16	
C	H	A	R	I	T	Y	

23

	1	2	4	6	10	16	22
		A					

	1	2	4	6	8	14	20
	E						

Make a Word

Sum

	1	2	4	6	10	16	
R	E						

	1	2	6	10	
W	I				

	1	2	6	10	16	
H	O					

word root **tempor** can mean **time**

contemporary, temporary

Name: _____

$1 \cdot x \cdot 4 \cdot 3 \cdot 3 \cdot = \cdot 9 \cdot 3 \cdot \div \cdot 2 \cdot 1 \cdot 4 \cdot 6 \cdot = \cdot 2 \cdot x \cdot 8$
 $0 \cdot 0 \cdot 8$

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

The puzzle grid contains the following elements:

- Top-left vertical stack: 6, ÷, 7, =, 9
- Top-right vertical stack: 5, 4, ÷, 6, =, 9
- Top-middle horizontal row: ÷, 1, =, 4
- Top-middle vertical stack: x, 1, 4, =, 7, 4, ÷, 8
- Middle-left horizontal row: 4, x, 4, =, 2, 4, 9
- Middle-left vertical stack: 4, x, 7, =, 1, 8, 0, x, 0, =
- Middle-right horizontal row: 9, x, 7, =, 6, 3
- Middle-right vertical stack: 8, ÷, 1, =, 4, 0, ÷, 5, =
- Bottom-left horizontal row: 2, 1, ÷, 3, =, 7
- Bottom-left vertical stack: 8, 9, =, 5, x, =, 4, 0, ÷, 5, =

$8,459 + 9,316 =$ _____

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

Name: _____

This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.

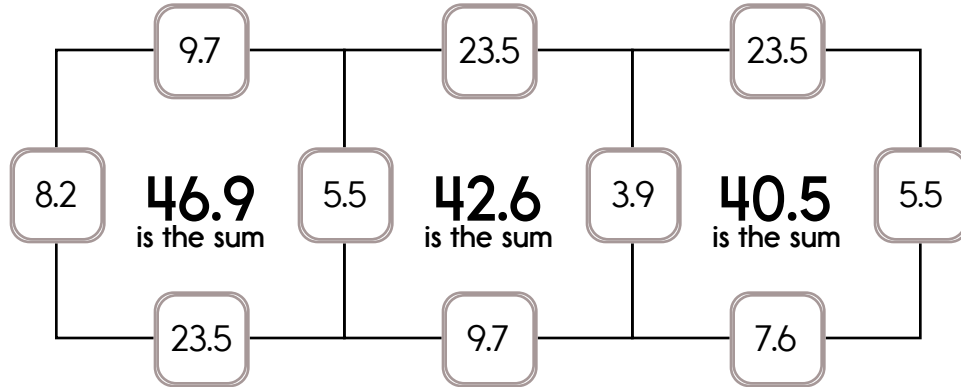
Example:

$$8.2 + 5.5 + 9.7 + 23.5 = 46.9$$

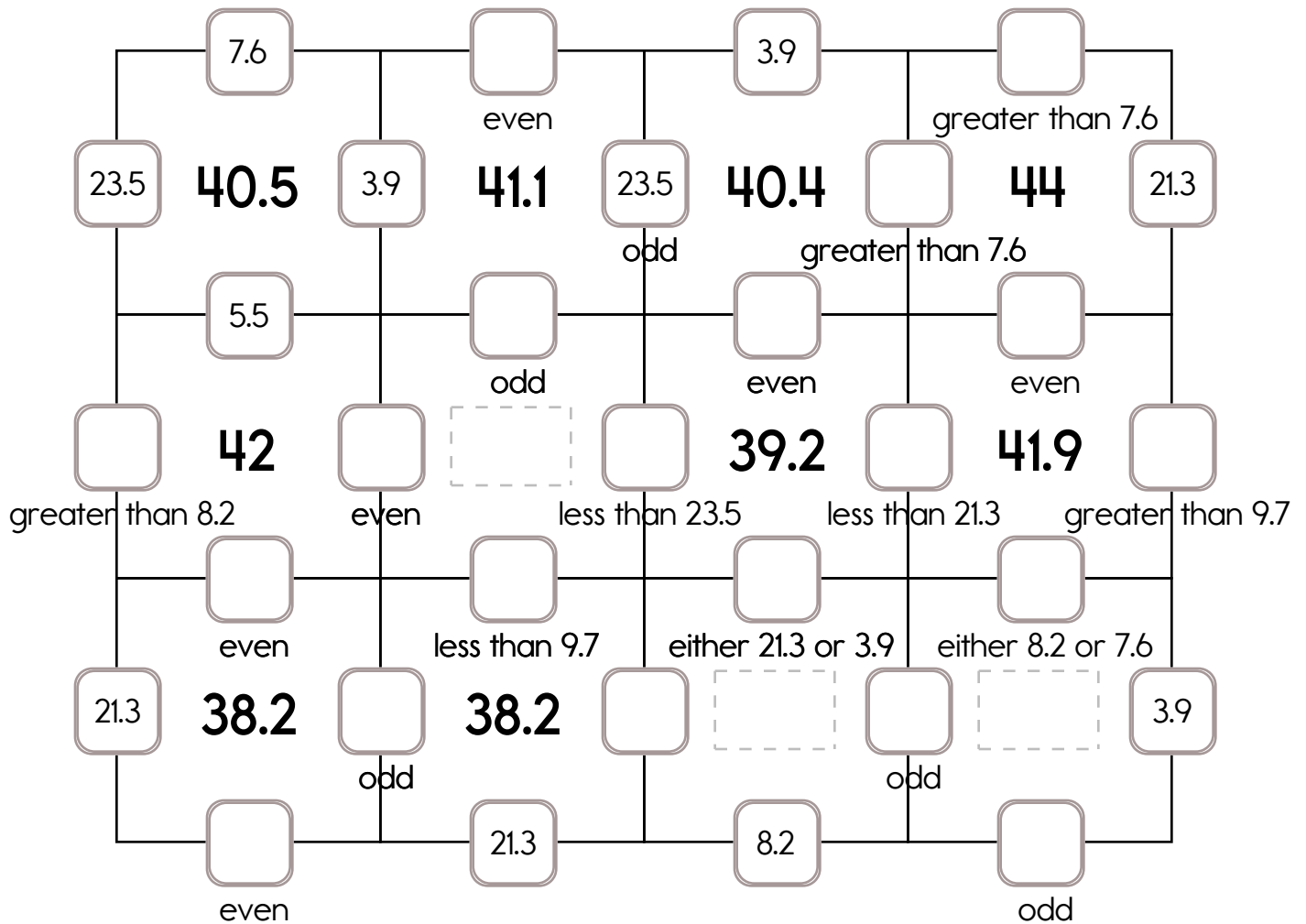
Example:

$$3.9 + 5.5 + 23.5 + 7.6 = 40.5$$

Sample:



Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: 21.3, 22.3, or 23.5. The other three numbers have to all be DIFFERENT and must be from these: 8.2, 3.9, 5.5, 4.8, 9.7, or 7.6.



Name: _____

Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: 16.3, 24.7, or 11.6. The other three numbers have to all be DIFFERENT and must be from these: 8.5, 7.4, 9.3, 2.3, 3.3, 5.7, or 0.6.

	9.3		3.3		11.6			
						less than 24.7		
0.6	43.1	24.7	37.1	8.5	29.8		35.3	
			less than 9.3		greater than 0.6		greater than 3.3	
	8.5		0.6					
				even		greater than 0.6		
				8.5	36.1		36	
greater than 0.6		35.1	odd			even		
	greater than 3.3		either 3.3 or 11.6		even		odd	
	33.2		29.8		30		27.6	
odd		greater than 7.4	either 0.6 or 7.4		either 16.3 or 3.3		either 7.4 or 24.7	
	odd		even		less than 16.3		either 0.6 or 7.4	
	31.9		43.7		33.2		22.9	
either 16.3 or 3.3		less than 11.6		odd		odd		odd
	less than 24.7				even		odd	
	29.5		44.7					
		greater than 2.3		odd		either 0.6 or 7.4		
	greater than 8.5		odd		either 16.3 or 3.3		even	

Name: _____

Jessica lives at the point $(-8, -11)$. She wants to go to the closest mall. There are two malls on the map. Mall AA is at $(-11, -18)$, and Mall BB is at $(-5, -6)$. On the map she can only travel vertically or horizontally, one unit at a time. She cannot go diagonally. So she could go from $(1,3)$ to $(1,4)$ or $(1,3)$ to $(2,3)$, but not from $(1,3)$ to $(2,4)$. Which mall is closer to her?

$$-7 - 11 =$$

$$-3 - 2 - 1 =$$

$$-9 + 2 =$$

Simplify.

$$\frac{18,500}{29,600} =$$

$$0.8 \times 0.4$$

If $z = 6$ and $v = -27$ then what is the value of b ?
 $4z + 10v + 3v = b$

$$32 \div 8 = \underline{\hspace{2cm}}$$

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

Name: _____

Write C if a letter is a consonant. Write V if a letter is a vowel.

Y can be tricky. Y is a vowel only if it makes an A, E, I, O, or U sound.

d i s p a t c h
C V C C V C C C

s q u a t t e r

g o w n

s t e a m b o a t

s c a n d a l

l y e

s t y

The WXY SAYING rule states that if a word ends in W, X, or Y, just add -ING.

There is no need to double any letters.

Which words fit this rule? Circle the words which follow this rule.

MEW	CLAM	LET	TAX	TOSS
GRATE	PLOW	HOP		POOL
SMUDGE		VIEW	SHY	JINX
DAWN	SHUT	THAW	THROW	
CHAT	FLIP	CRY	DRINK	BAT

THAW → THAWING

Name: _____

Welcome to Spelling High. Ready to add ING to words with one syllable?

Write C if a letter is a consonant. Write V if a letter is a vowel.

Y can be tricky. Y is a vowel only if it makes an A, E, I, O, or U sound.

a r m

V C C

V C C

WXY Saying, just add ING

CVC Ending so double M and then add ING

Otherwise just add ING

armming or arming

j o t

WXY Saying, just add ING

CVC Ending so double T and then add ING

Otherwise just add ING

jotting or joting

t o u c h

WXY Saying, just add ING

CVC Ending so double H and then add ING

Otherwise just add ING

touching or touching

f l o w

WXY Saying, just add ING

CVC Ending so double W and then add ING

Otherwise just add ING

flowing or flowwing

s t r u m

WXY Saying, just add ING

CVC Ending so double M and then add ING

Otherwise just add ING

struming or strumming

l u g

WXY Saying, just add ING

CVC Ending so double G and then add ING

Otherwise just add ING

lugging or lugging

Can 341 be evenly divided by 11? Circle:

341 is evenly divisible by 11

341 is NOT evenly divisible by 11

$16 \div 2 =$ _____

$7 \times 3 =$ _____

Name: _____

E I R S S S N S G P K D S K K S E
 I S I G H H H R H N R S H N H H R
 L H R N R S R R S D E H R A I R O
 E R S I I S H I I G N R U R L I R
 U E H K V K H R V E L E G H L E E
 S W S N E S N R I E K D S S I K B
 H D D I L R S U E V L E K G R I U
 R E E R E G R K R W E I D K H N R
 U S R H D T D E I H D L N L S G H
 B T H S S H R E D S S K I G R D S
 R R S H R I L L H R S S I N H H R
 N S H R I M P S V R R M I R G H K
 D W E R H S E G R H H U S S V E D

"SHR" Words

SHR _____ SHR _____
 SHR _____ SHR _____
 SHR _____ SHR _____
 SHR _____ SHR _____
 SHR _____ SHR _____
 SHR _____ SHR _____

I found _____ "SHR" words.

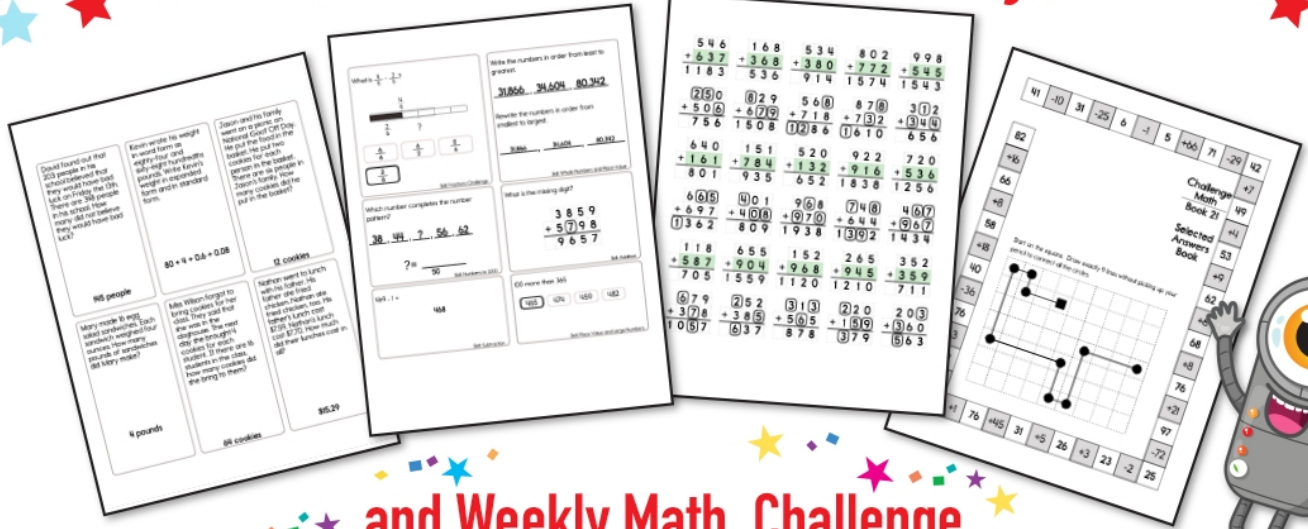
$22 \div 11 =$ _____	Circle the greatest number: 476,310,534,291 53,407,281,967 10,456 892,329,508	$11 \times 10 =$ _____
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$7 \times 7 =$ _____	Write the missing family fact. $10 \times 15 = 150$ $150 \div 15 = 10$ $150 \div 10 = 15$ _____
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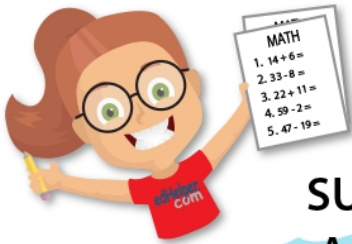
For 3,994,129,166,078, write the digit that is in the ten thousands place. _____	$11 \times 12 =$ _____	$132 \div 11 =$ _____
---	------------------------	-----------------------

Circle the addition property for $78 + 10 = 10 + 78$. associative property commutative property	$24 \div 8 =$ _____	$3 \times 10 =$ _____
--	---------------------	-----------------------

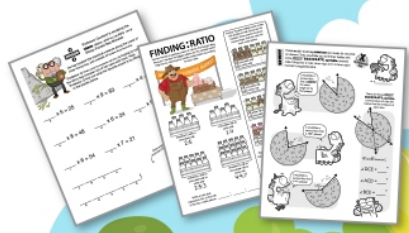
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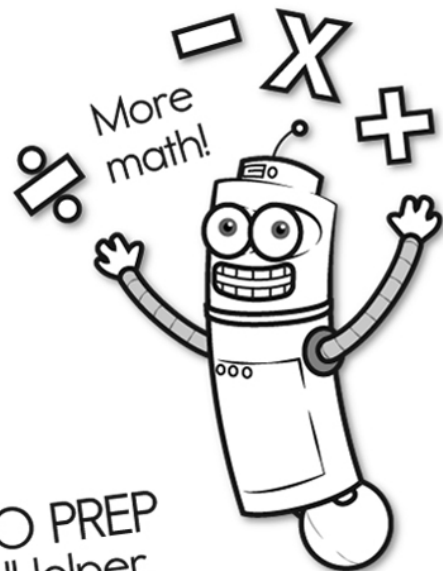
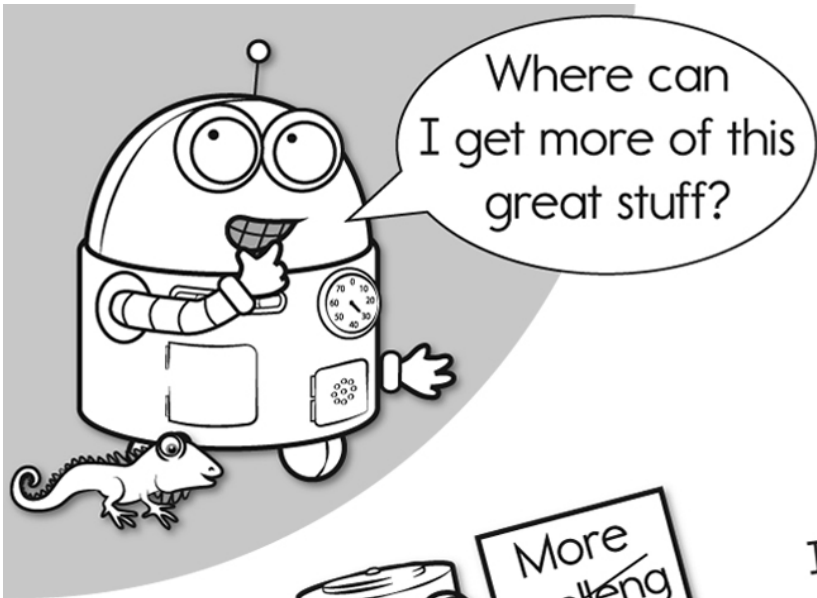
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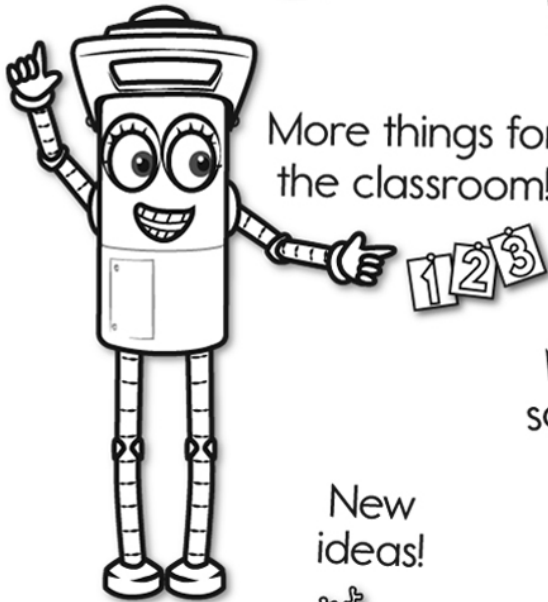


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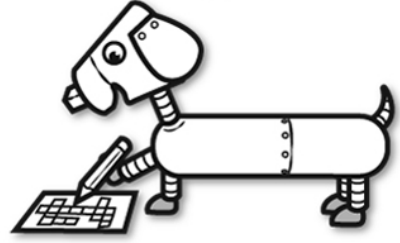


New ideas!



x = - ÷ < - >

More puzzles!



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