

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

Express  $\frac{1}{3}$  as a repeating decimal.

Write as a fraction in simplest form.

$$\frac{2}{3} + \frac{1}{5} + \frac{1}{6} = \underline{\hspace{2cm}}$$

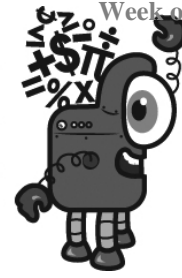
$$\frac{1}{5} + \frac{2}{3} + \frac{4}{15} = \underline{\hspace{2cm}}$$

$$\frac{1}{3} + \frac{2}{5} + \frac{4}{15} = \underline{\hspace{2cm}}$$

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 4 in your head

add 1  
add 7

Write the ones digit.

\_\_\_\_\_ A

imagine 8 in your head

multiply 12  
double it  
subtract 7  
add 8  
subtract 6

Write the tens digit.

\_\_\_\_\_ B

imagine 2 in your head

multiply 6  
double it  
subtract 6  
subtract 9  
subtract 8

Write the number.

\_\_\_\_\_ C

imagine 6 in your head

double it  
add 4  
subtract 7

Write the number.

\_\_\_\_\_ 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?

\_\_\_\_\_ t \_ y

7 before 12 \_\_\_\_\_

1 after 11 \_\_\_\_\_

7 after 14 \_\_\_\_\_

2 before 17 \_\_\_\_\_

4 after 18 \_\_\_\_\_

5 after 19 \_\_\_\_\_

5 before 15 \_\_\_\_\_

3 after 17 \_\_\_\_\_

6 after 15 \_\_\_\_\_

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

During an electronics experiment in your laboratory, you measure the voltage at terminal A on your newly designed circuit. You measure -14 volts. You check the same terminal after making a small change to the circuit, and this time you measure -21 volts. What was the voltage difference between the two readings?

Organic compounds of varying carbon chain lengths have boiling points that increase as the number of carbon atoms increases. Methane ( $\text{CH}_4$ ) boils at -164 degrees C. If another carbon compound with a longer carbon chain boils at a temperature that is 104 degrees C higher than the boiling point of methane, what is its boiling point?

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

Mrs. Jones 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."

Emily wants to draw the biggest rectangle on her 15.5-inch by 18.5-inch piece of paper. What size should she draw the rectangle?

Which two of these numbers have a product of 1.508?

0.029

2.9

0.84

0.052

0.084

0.29

0.52

8.4

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

Complete each pattern. Write what the rule is.

62498, 49862, 86249, \_\_\_\_\_, \_\_\_\_\_, 62498, 49862,  
86249, 24986, 98624, 62498, 49862, 86249, 24986

798236, 823679, \_\_\_\_\_, \_\_\_\_\_, 823679, 367982, 798236,  
\_\_\_\_\_, \_\_\_\_\_, 798236, 823679, 367982, 798236, 823679

Complete each pattern. Write what the rule is for each pattern.

(5,497,558,138,880), (343,597,383,680), (21,474,836,480),  
(1,342,177,280), (83,886,080), (5,242,880), (327,680),  
(20,480), \_\_\_\_\_, \_\_\_\_\_

(10,604,499,373), (815,730,721), (62,748,517),  
(4,826,809), (371,293), (28,561),  
(2,197), (169), \_\_\_\_\_

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

Mr. Clark made a pot of tea at his restaurant. The pot holds 18 servings of tea. If each serving is  $3\frac{1}{3}$  oz, how many ounces of tea does the pot hold?

Write the missing family fact.

$$129 - 68 = 61$$
$$68 + 61 = 129$$
$$129 - 61 = 68$$

\_\_\_\_\_

Rewrite these in increasing order of length:

45 cm, 897 km, 554 mm, 301 m, 2 dm

List seven of the smallest whole numbers that are greater than 40, are multiples of 3, and are not multiples of 9.

You have four digits to use in an addition problem: 3, 9, 2, and 4. Make up a problem where you have two 2-digit numbers. What is the largest sum you can make?

$$\begin{array}{r} 24 \\ + 20 \\ \hline \end{array}$$

Maria rolls a die. What is the chance of her rolling a 1?

\_\_\_\_\_

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

1 cm = 10 mm 8 cm = _____ mm	$72 \div 9 =$ _____	$\begin{array}{r} 45 \\ - 28 \\ \hline \end{array}$	$5 \times 9 =$ _____
---------------------------------	---------------------	---	----------------------

Can 535 be evenly divided by 5? Circle: 535 is evenly divisible by 5 535 is NOT evenly divisible by 5	Five-sixths of the children in Anderson's class want to go outside. If Anderson agrees with the majority, will the class stay inside or go outside?
---	---

$12 \times 4 =$	$75,346 + 14,867 =$ _____	$\begin{array}{r} 305 \\ - 229 \\ \hline \end{array}$
-----------------	---------------------------	---

What number is halfway between 13 and 19?	Write this as a number in standard form. Use a comma in your number.  five hundred forty-seven thousand, eight hundred thirty  _____
---	--

$2 \times 4 =$ _____	17 km = _____ m	$\begin{array}{r} 468 \\ + 403 \\ \hline \end{array}$
----------------------	-----------------	---

$6 \times 10 =$	How many kilograms are in 6,000 grams?  _____ kilograms
-----------------	---

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

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

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

The puzzle grid contains the following numbers and symbols in their respective positions:

- Top row: 5
- Row 2: 8 x = 5 6
- Row 3: 8
- Row 4: 4 0 ÷ 8 = 5
- Row 5: 5
- Row 6: ÷ 1 + 0 + = 7 0
- Row 7: 5
- Row 8: = 2 + 6 = 8
- Row 9: ÷ 3 = 3 = 2 = 3 1 = 4
- Row 10: 5 1 8 ÷ 3
- Row 11: 3 6 ÷ = 4 ÷ 7
- Row 12: 7
- Row 13: 4 + 9 = 1 4 - 1
- Row 14: 5 8 =
- Row 15: 0 ÷ =

Jessica and Rose are playing a number game.  
Jessica says 47. Rose replies that the answer is 5.  
Jessica says 11. Rose replies that the answer is 1.  
Jessica says 83. Rose replies that the answer is 9.  
Jessica says 128. Rose replies that the answer is 14.  
Jessica says 29. Rose is thinking. What number should Rose reply with?

6 x 7 = \_\_\_\_\_

15 ÷ 5 = \_\_\_\_\_

10 x 8 = \_\_\_\_\_

What time is 13 hours after 5:00 a.m.?  
\_\_\_\_\_

18 ÷ 3 = \_\_\_\_\_

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

5 • - • 3 • 5 • + • = • 9 • 7 • 0 • 3 • 1 • + • 5 • = • 0 • 1  
= • 3

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

The puzzle grid contains the following elements:

- Vertical bar 1 (leftmost): 1, 8, -, 6, =, +, [empty]
- Vertical bar 2: [empty], x, 5, =, 1, [empty]
- Vertical bar 3: 9, x, 3, 2, [empty]
- Vertical bar 4: [empty], [empty], [empty], [empty], [empty], [empty], [empty], [empty]
- Vertical bar 5: 0, [empty], 1, =, 3, 1, 0, ÷, [empty]
- Vertical bar 6: [empty], [empty], [empty], [empty], [empty], [empty], [empty], [empty], [empty]
- Vertical bar 7: 4, x, [empty], [empty], [empty], [empty], [empty], [empty], [empty]
- Vertical bar 8: 2, 4, 1, ÷, [empty], [empty], [empty], [empty]
- Horizontal bar 1: [empty], +, 7, [empty], 1, 5, -, 7, =, [empty]

$120 \div 12 = \underline{\hspace{2cm}}$

$(5 + 4) + 3 = \underline{\hspace{2cm}}$

$831 - 356 = \underline{\hspace{2cm}}$

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

$$\begin{array}{r} 6 \\ 1 \\ 6 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 439 \\ 929 \\ + 672 \\ \hline \end{array}$$

$$6 + 7 + 2 =$$

Write as a decimal.  
Nine and six hundredths

Write as a decimal.

$$9 \frac{7}{10}$$

Use  $>$ ,  $<$ , or  $=$  to complete.

$$9.09 \underline{\quad} 9.61$$

$$5.2 \underline{\quad} 5.3$$

$$7.8 \underline{\quad} 8.1$$

$$8.6 \underline{\quad} 7.9$$

$$3.9 \underline{\quad} 3.4$$

$$0.8 \underline{\quad} 0.71$$

$$6.4 \underline{\quad} 5.7$$

$$\frac{1}{12} \times \frac{8}{9} =$$

$$\frac{3}{4} \div \frac{11}{12} =$$

Write the reciprocal.

$$\frac{20}{23}$$

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

Make change. You can use \$20, \$10, \$5, \$1, 25¢, 10¢, 5¢, or 1¢.

Make \$43.35 using bills and coins.

	\$20			
--	------	--	--	--

25¢	
-----	--

Show a different way to make \$43.35 using a different number of bills or coins.

Make \$54.55 using bills and coins.

Show a different way to make \$54.55 using a different number of bills or coins.

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

Mental Math

— #1 —

 Start with the product of 12 and 5.

60

 Add 4.

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

 Find the square root.

9 4 4 6 3 7 5 8 8 8

 Add 47.

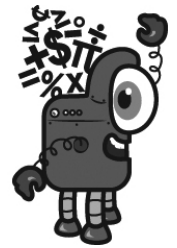
9 4 6 0 5 5 8 0 7 1

 Multiply by 10.

2 1 9 9 4 5 5 0 1 9

 Add the number of inches in 1 foot.

5 6 2 3 6 0 5 7 8 8



Mental Math

— #2 —

Start with the number 17.

5 8 9 1 3 3 4 1 7 3 (Circle your answer to double check you are correct.)

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

8 8 4 2 5 4 3 6 7 9

Add half of 48.

5 4 3 2 4 9 9 2 2 3

Multiply by 10.

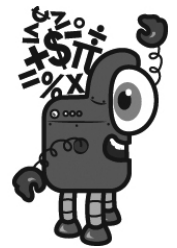
3 2 0 7 3 9 4 6 9 9

Add the number of ounces in 1 pound.

4 1 6 8 3 3 6 0 3 8


Subtract 25.

4 7 6 3 1 1 3 5 2 1









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

Draw ONE continuous line that touches every box ONCE.  
Count by 5.5s. Find the box with the number 4. Move up, down, right, or left.  
Keep counting until you reach 75.5. Do not move into a spot with a picture.

64.5 	59	53.5	48 - -	42.5
70 	9.5 - -	-15 	31.5	37
75.5	4 	20.5 - -	-26	

Draw ONE continuous line that touches every box ONCE.  
Count by 2.1s. Find the box with the number 4. Move up, down, right, or left.  
Keep counting until you reach 33.4. Do not move into a spot with a picture.

	- - - - -	- - - - -	-12.4			
	6.1 					
	4 				33.4	

If you divide 62 by 6, you get a remainder of 2.  
Make up three other different equations where you divide by 6 and get a remainder of 2.

$10 \div 5 = \underline{\hspace{2cm}}$

$48 \div 4 = \underline{\hspace{2cm}}$

$4 \times 5 = \underline{\hspace{2cm}}$

$873 + 491 = \underline{\hspace{2cm}}$

$12 \times 9 = \underline{\hspace{2cm}}$

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

Fill in the missing numbers.

Only rule - The same number CAN NOT be next to each other, in ANY direction.

Dark lines surround a block. Numbers to use in a block:

A block with 1 space has to be the number 1.

A block with 2 spaces must have the numbers 1 and 2.

A block with 3 spaces must have the numbers 1, 2, and 3.

A block with 4 spaces must have the numbers 1, 2, 3, and 4.

1	3	1	2	4	3	1	2
4	2			1	2	4	3
1	3			4	3	1	2

An entire block with 4 spaces is blank. Since the block is 4 spaces it uses the numbers 1-4.

3 2 4 1

1	3	2				2
2	4	1	4		3	1
1	3	2	3	1	4	2
2	4	1	4	2	3	1

An entire block with 4 spaces is blank. Since the block is 4 spaces it uses the numbers 1-4.

4 3 1 2

1			2	1	2	1
3		1	4		4	
1	4			1	2	1

Hint - These numbers are missing:

3 4 3 2 2 3 3

	2	1		1		1
3	4			3	4	3
2		2	1		1	

Hint - These numbers are missing:

1 1 3 2 4 2 2 2

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

Fill in the missing numbers.

1	2			1
	3	4	3	
1	2	1	2	1
	4		4	3
1	2		2	1

Hint - These numbers are missing:

2 4 3 3  
4 1 1

1		1		
3		3	4	3
	1	2		
4	3		3	
1		1		1

Hint - These numbers are missing:

1 2 4 1 2 2  
2 2 2 4 4

		2	1	2	
3			4	3	
1	2				2
	4		4	3	
1			2		2

Hint - These numbers are missing:

1 2 4 4 2 2 1 3  
1 4 3 1 3 1 1

	2	1	2		2
4		4			3
	1			2	1
3	4	3	4	3	
				1	2

Hint - These numbers are missing:

3 2 4 2 4 3 1  
2 1 1 1 2 1

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	K	L	M	N	O
	3	4	4	6	7	7	10	10	7	4	3	1	1	1	1
P	5										/				
Q	6										/				
R	11										█				
S	11										█				
T	15										█				
U	9										/				
V	6	/									/				
W	2	/	/	/	/	/	█	█	/	/	/	/	/	/	/
X	2										/				
Y	2	/									/				

- CLUE A: Color in 3 consecutive boxes.
- CLUE B: Color in 4 consecutive boxes.
- CLUE C: Color in 4 consecutive boxes.
- CLUE D: Color in 6 consecutive boxes.
- CLUE E: Color in 7 consecutive boxes.
- CLUE F: Color in 7 consecutive boxes.
- CLUE G: Color in all the boxes in this column.
- CLUE H: Color in all the boxes in this column.
- CLUE I: Color in 7 consecutive boxes.
- CLUE J: Color in 4 consecutive boxes.
- CLUE K: Color in 3 consecutive boxes.
- 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 5 consecutive boxes.
- CLUE Q: Color in 6 consecutive boxes.
- CLUE R: Color in 11 consecutive boxes.
- CLUE S: Color in 11 consecutive boxes.
- CLUE T: Color in 15 consecutive boxes.
- CLUE U: Color in 9 consecutive boxes.
- CLUE V: Color in 6 consecutive boxes.
- CLUE W: Color in 2 consecutive boxes.
- CLUE X: Color in 2 consecutive boxes.
- CLUE Y: Color in 2 consecutive boxes.

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

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

Circle words to the RIGHT or DOWN. Every letter is used exactly ONCE.

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

Write the words found.

SLED _____	ANACHRONISM _____	END _____
TREADMILLS _____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Write an equation to represent this:

The product of twelve and eight is ninety-six.

\_\_\_\_\_

Circle the digit in the tenths place.

22.99

The boys in your class each were given a ticket with a number on it. The numbers given out were: 25, 20, 33, 13, 37, 12, and 11. One ticket will be picked from a hat. What are the chances that the winning ticket number is divisible by 3?

92,793 - 47,967 = \_\_\_\_\_

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

Select the word or phrase whose meaning is closest to the given word.

<p><b>OBSOLETE</b></p> <p>luminous timely hibernating outmoded misshaped</p>	<p><b>AWE</b></p> <p>shock expression of sympathy speech concern sigh</p>	<p><b>CADENCE</b></p> <p>isolation emotion rhythm organization tessellation</p>
<p><b>MEEK</b></p> <p>practical foreboding timid happy daunting</p>	<p><b>CONVENTIONAL</b></p> <p>orthodox confusing contemporary timely heterodox</p>	<p><b>BENEVOLENCE</b></p> <p>toleration utility kindness empathy loyalty</p>
<p><b>DOZE</b></p> <p>nap deviate boast twelve of something batter</p>	<p><b>VORACIOUS</b></p> <p>starving satiated ravenous vegetarian thirsty</p>	<p><b>EXTRANEIOUS</b></p> <p>fundamental comical too much irrelevant protracted</p>

Now find the given words AND the answers in the word search. If you can't find an answer, you might be wrong.

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

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

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

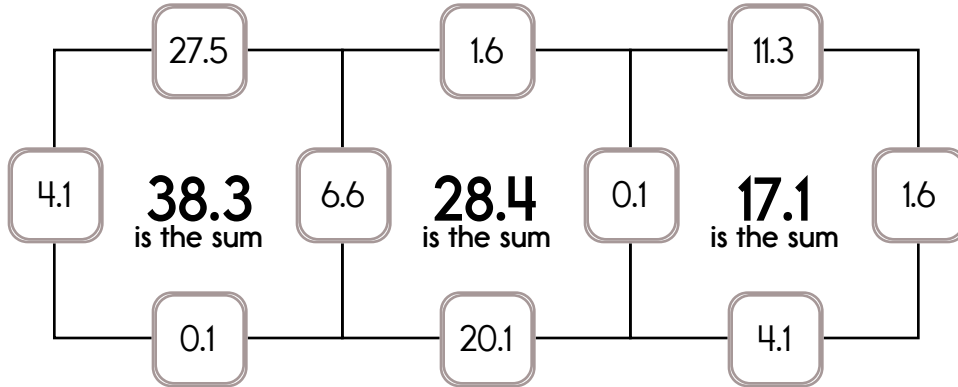
Example:

$$4.1 + 6.6 + 27.5 + 0.1 = 38.3$$

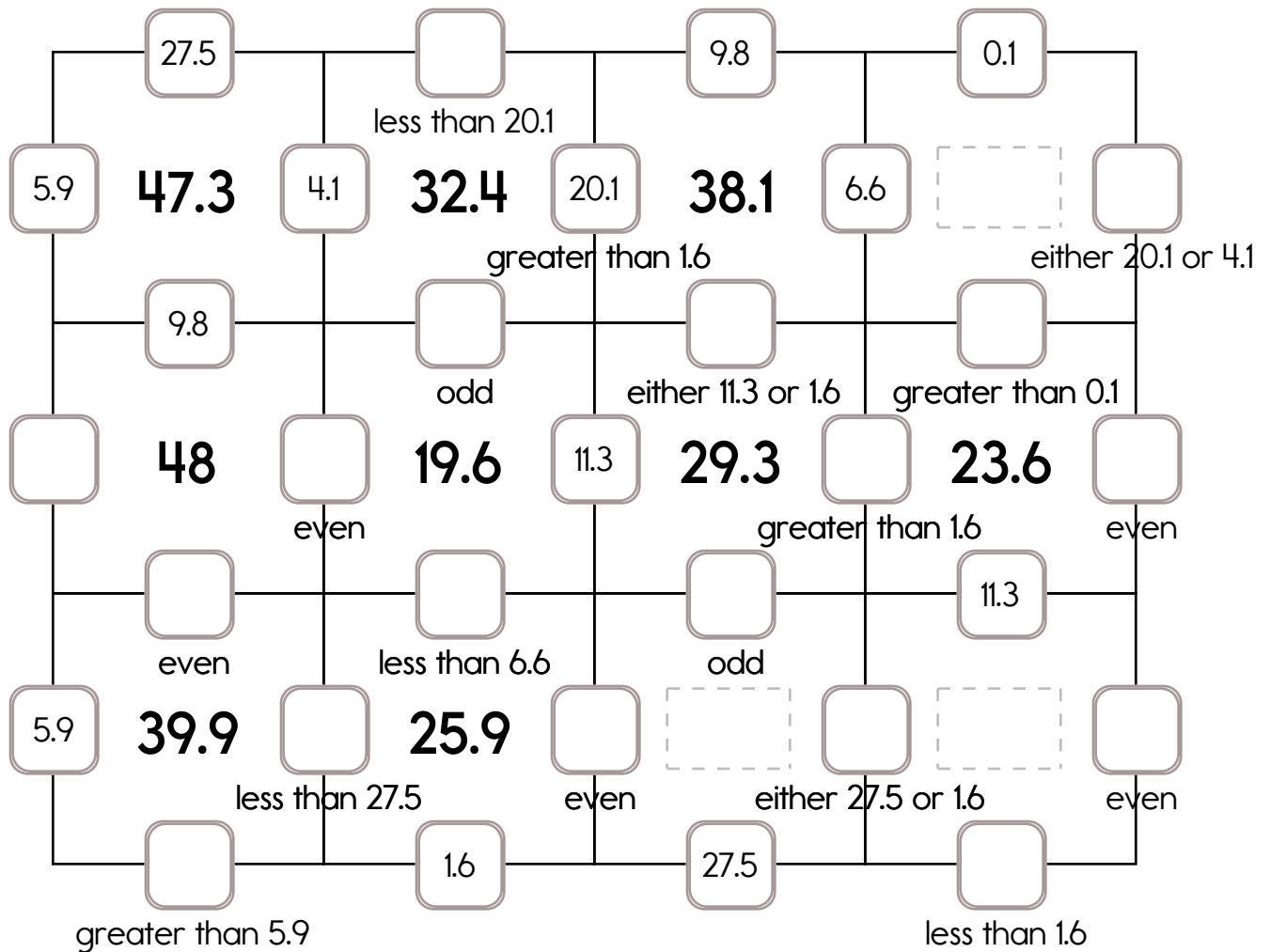
Example:

$$0.1 + 1.6 + 11.3 + 4.1 = 17.1$$

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: 20.1, 11.3, or 27.5. The other three numbers have to all be DIFFERENT and must be from these: 4.1, 5.9, 6.6, 1.6, 9.8, or 0.1.



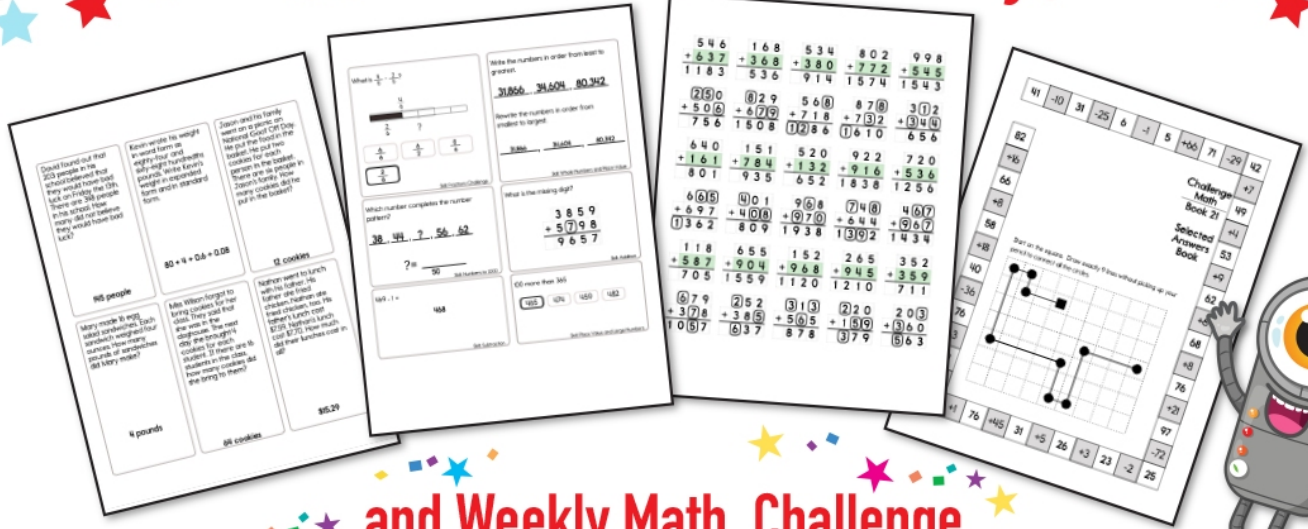
Name: \_\_\_\_\_

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: 16.8, 14.4, or 27.5. The other three numbers have to all be DIFFERENT and must be from these: 3.5, 5.4, 8.5, 0.4, 1.9, or 4.1.

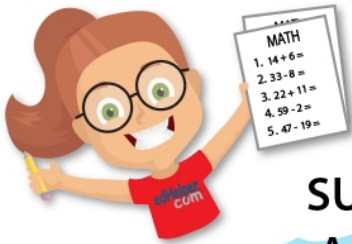
	1.9				1.9			
5.4	<b>25.2</b>	3.5	<b>41.4</b>	8.5	<b>32.4</b>	4.1	<b>33.9</b>	27.5
	14.4			14.4				
8.5			<b>38.3</b>		<b>32.4</b>		<b>37.4</b>	
	<b>27.4</b>		<b>38.3</b>		<b>37</b>		<b>35.5</b>	
	<b>36.8</b>		<b>35.5</b>		<b>40.5</b>		<b>28.7</b>	
	<b>38.3</b>		<b>28.2</b>					

odd  
 greater than 0.4  
 odd  
 less than 1.9  
 even  
 greater than 1.9  
 odd  
 greater than 3.5  
 odd  
 less than 16.8  
 greater than 1.9  
 even  
 either 27.5 or 5.4  
 odd  
 either 27.5 or 1.9  
 odd  
 either 3.5 or 27.5  
 greater than 0.4  
 even  
 odd  
 either 5.4 or 14.4  
 even  
 odd  
 less than 16.8  
 greater than 3.5  
 either 8.5 or 3.5  
 either 0.4 or 27.5  
 odd  
 either 1.9 or 16.8  
 greater than 3.5  
 less than 27.5  
 odd  
 even

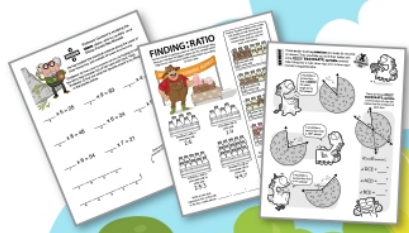
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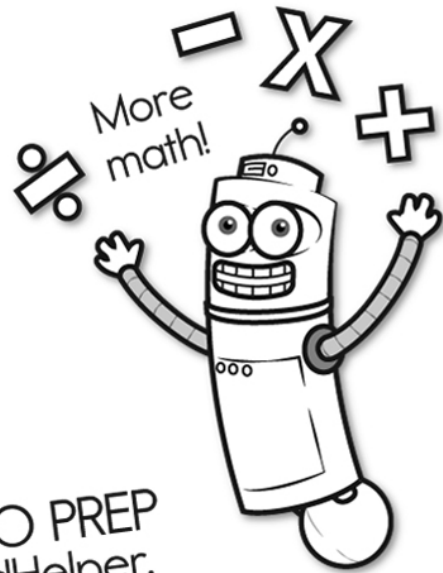
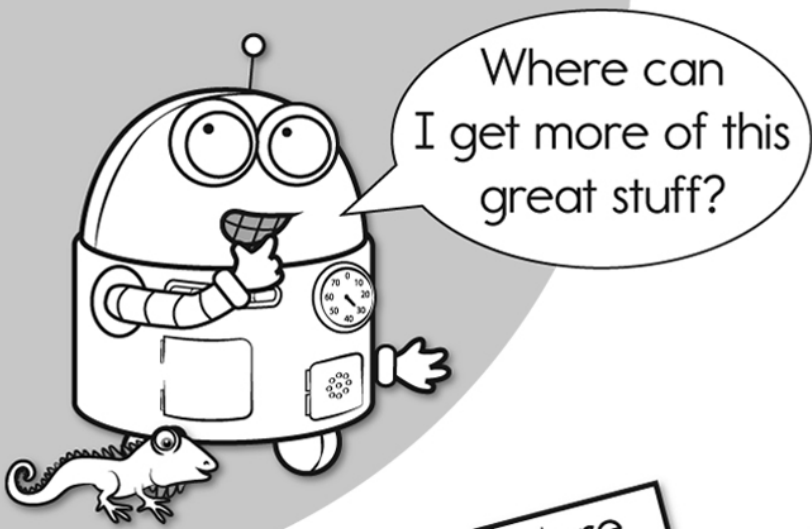
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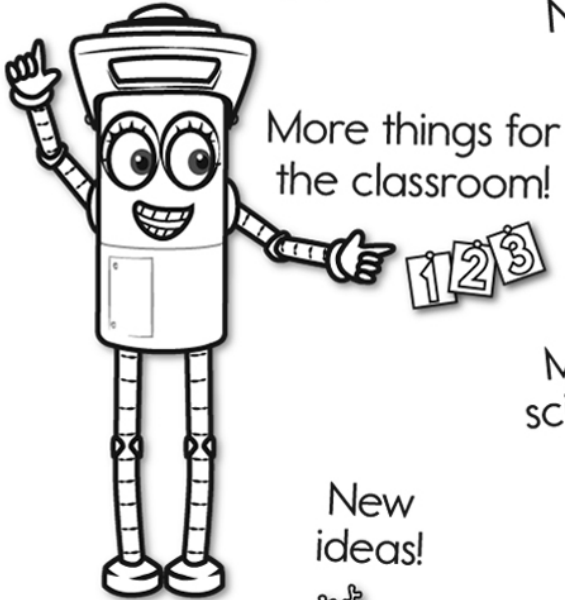
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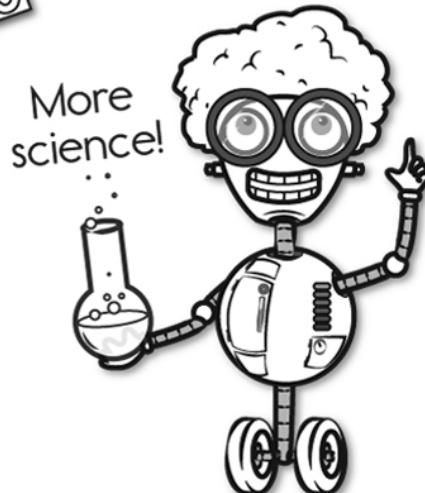
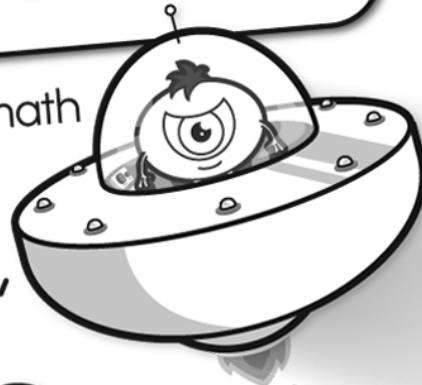


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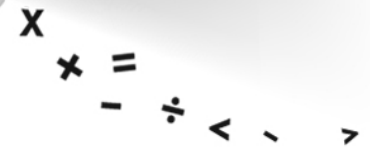


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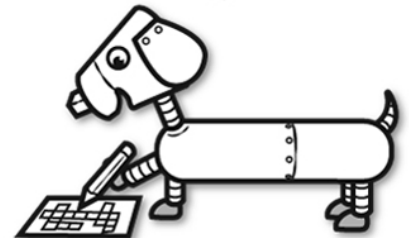


More science!

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