

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

57	-2				$-5\frac{1}{2}$		-21		$+\frac{1}{3}$
		$+8\frac{1}{2}$		+60					
							-3		+12
		-41		$-7\frac{1}{2}$		$+\frac{1}{2}$			
				68					
+16		$+\frac{2}{3}$		+6		$+\frac{1}{2}$			
$-\frac{1}{3}$				$-\frac{1}{2}$		$+4\frac{1}{3}$			
	+23		$+\frac{2}{3}$				-36	$72\frac{2}{3}$	

Write an equivalent fraction with a denominator of 100. Solve.

$\frac{5}{10} =$

$\frac{8}{10} =$

$\frac{1}{10} =$

$\frac{2}{10} =$

$3 + (9 \times 2) + 3$

$(2 \times 9) + (35 \div 7)$

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

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

J, I, L, J, N, K, P, L, R, M, T, N, V, \_\_\_\_

H, M, J, N, L, O, \_\_\_\_, \_\_\_\_, P, Q

I, \_\_\_\_, \_\_\_\_, K, M, L, O, M, Q, N, S, O

Complete each pattern. Write what the rule is.

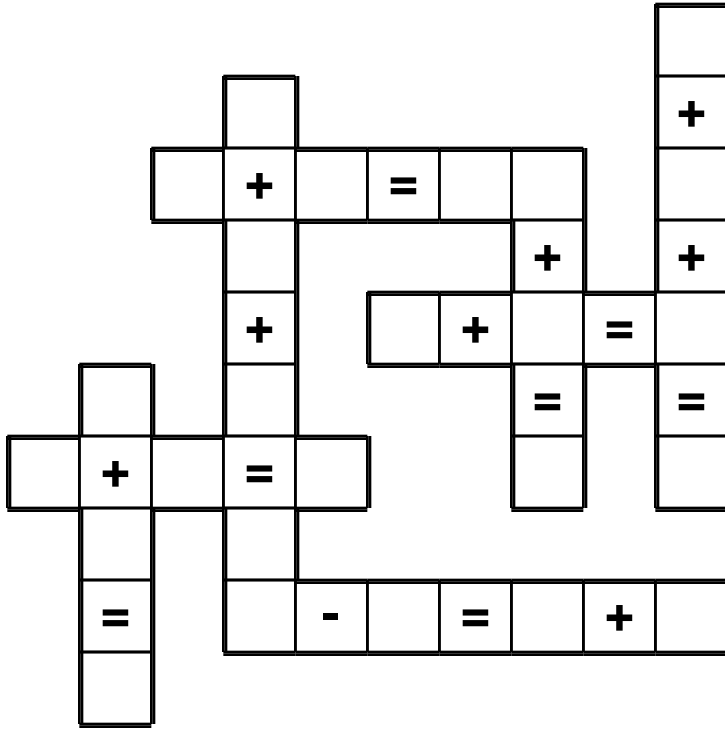
225, 204, 183, 164, 145, 128, \_\_\_\_, 96,

81, 68, 55, 44, 33, 24, 15

279, \_\_\_\_, \_\_\_\_, 212, 191, 172, 153, 136, 119,

104, 89, \_\_\_\_, \_\_\_\_, 52, 41, 32, 23

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



Sixth Grade

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

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

Make \$24.17 any way you want!

Make \$25.28 any way you want!

Make \$25.16 any way you want!

Make \$42.34 any way you want!

$$\begin{array}{r} 42 \\ + 28 \\ \hline \end{array}$$

$9 \times 7 =$

$9 \div 3 =$

$11 \times 5 =$

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

		x	+	-	=	
+	B	C	C	C		21
+	C	A	C	B		8
=	?	A	C	A		27
	17	11	9	14		

**Equations and Hints:**

Each letter is a whole number.

Fill in the equations using the chart:

$$C + C + C = 9 \quad C + B + A = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} + \underline{\quad} - \underline{\quad} = 21 \quad \underline{\quad} \times \underline{\quad} + \underline{\quad} - \underline{\quad} = 8$$

$$\underline{\quad} + \underline{\quad} + \underline{\quad} = 11$$

Additional hints:

$$B < 8 \quad B = C + 4$$

**Solve:**

$$? = \underline{\quad}$$

**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.

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

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

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

Hint - These numbers are missing:

4 3 1 3 2 2 1 3 2

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

Hint - These numbers are missing:

3 3 4 1 1 3 1 2 4 3

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

Fill in the missing numbers.

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

Hint - These numbers are missing:

3 4 4 3 1  
2 2 1 4

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

Hint - These numbers are missing:

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

2		2	1		
4		4		4	
	2		2	1	2
	4				4
1	2		2	1	2

Hint - These numbers are missing:

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

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

Hint - These numbers are missing:

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

$$82,838 - 17,918 = \underline{\hspace{2cm}}$$

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

Four piggy banks contain a combination of nickels and pennies. Each piggy bank has fourteen, five, nine, or twelve nickels. Each piggy bank also has ten, three, fifteen, or two pennies. Amber, Sydney, Hannah, and Christian are the owners of the piggy banks.

Figure out how many nickels and pennies each person has.

1. The value of Sydney's nickels is fifty-seven cents more than the value of Sydney's pennies.
2. The person with twenty-five cents worth of nickels is not the one with ten cents worth of pennies.
3. Christian has a total of eighty-five cents.
4. If the number of pennies Amber had were doubled, then the value of the pennies would be ten cents.
5. Hannah has less than sixty-five cents worth of nickels.

Amber has \_\_\_\_\_ nickels and \_\_\_\_\_ pennies.

Sydney has \_\_\_\_\_ nickels and \_\_\_\_\_ pennies.

Hannah has \_\_\_\_\_ nickels and \_\_\_\_\_ pennies.

Christian has \_\_\_\_\_ nickels and \_\_\_\_\_ pennies.

Find 20% of 230.

Change 16% to a decimal and a fraction expressed in its lowest terms.

72 is what percent of 150?



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

Cross off the number that does NOT belong.

3.36, 25.19, 2.54, 21.54, 31.09, 58.82, 92.45, 182.36,  
 333.63, 608.44, 1124.43, 2066.5, 3799.37, 6990.3, 12856.17

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

Cross off the number that does NOT belong.

$\frac{1}{32768}$  ,  $\frac{1}{4096}$  ,  $\frac{1}{512}$  ,  $\frac{1}{64}$  ,  
 $\frac{1}{8}$  , (1), (8), (64),  
 (73), (512), (4,096)

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

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

Complete each pattern.

\_\_\_\_, \_\_\_\_, P, 7, 3, P, 7, 3, P, 7, 3, P, 7, 3

3, 4, 1, 7, 3, 4, 1, 7, 3, 4, \_\_\_\_, \_\_\_\_, 3, 4, 1

r, S, u, A, r, S, u, \_\_\_\_, r, S, u, A, r, S, u

Complete each pattern. Write what the rule is.

216	198	180
162	144	
108		72
54	36	

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

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

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

$$\frac{7}{11} \div \frac{20}{22} =$$

The letter V has an unknown value. If you multiply V by twelve, the product is three. What value does V have?

Rewrite  $\frac{31}{50}$  as a decimal.

How many centimeters are in 30 millimeters?

\_\_\_\_\_ centimeters

$$3 \times 2 = \underline{\hspace{2cm}}$$

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

Find the missing numbers.

If

$1, 11 = 11$

$2, 13 = 26$

$3, 17 = 51$

$4, 20 = 80$

Then

$5, 25 = ?$

If

$7, 7 = 14$

$8, 9 = 17$

$9, 13 = 22$

$10, 18 = 28$

Then

$11, 21 = ?$

Complete each pattern. Write what the rule is.

847529, 752984, 298475, 847529, 752984, 298475, 847529,  
752984, 298475, 847529, 752984, 298475, \_\_\_\_\_, \_\_\_\_\_

629788, 978862, 886297, \_\_\_\_\_, \_\_\_\_\_, 886297, 629788,  
978862, 886297, \_\_\_\_\_, \_\_\_\_\_, 886297, 629788, 978862

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

Cross off the letter that does NOT belong.

J, L, N, P, Q, R, T, V, X, Z

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

Cross off the number that does NOT belong.

4, 12, 19, 57, 64, 103, 192

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

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

Nathan, Emily, Katherine, and Victoria each completed their homework. One took sixty-seven minutes, one took fifty-five minutes, one took fifty-four minutes, and one took ninety-two minutes to complete their homework.

How long did each person take to finish his or her homework?

1. Emily started working at 3:32. Victoria started working fifteen minutes after Emily and finished at 5:19.
2. Katherine needed more time than Nathan to finish.
3. Emily started on the assignment at 4:48 p.m. Emily took a forty minute break at 5:19 p.m. to eat dinner. Emily continued working after dinner and finished the assignment at 6:23 p.m.

Nathan took \_\_\_\_\_ to finish.

Emily took \_\_\_\_\_ to finish.

Katherine took \_\_\_\_\_ to finish.

Victoria took \_\_\_\_\_ to finish.

Sketch an obtuse angle named  $\angle GHI$ .

Write the supplement of each angle.

$155^\circ$

$54^\circ$

$15^\circ$

$174^\circ$

Use a protractor to draw an obtuse angle  $\angle FGH$ .

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

The National Weather Service reported the normal monthly precipitation (23.12 inches, 13.97 inches, 20.92 inches, and 29.68 inches) for four cities (New York City, Los Angeles, Manila, and Honolulu). The total precipitation this month, relative to the normal precipitation, for the four cities was: -0.71 inches, 2.88 inches, 3.94 inches, and -4.03 inches.

Figure out the normal and actual precipitation for each city.

1. The city that normally has twenty and ninety-two hundredths inches of rain had sixteen and eighty-nine hundredths inches of rain this month.
2. If Los Angeles had rained three and ninety-four hundredths inches less this month, then Los Angeles would have had normal precipitation.
3. Honolulu's precipitation for the month was below normal.
4. Honolulu had thirteen and twenty-six hundredths inches of rain this month.
5. Manila had twenty-six inches of rain this month.

New York City has normal precipitation of \_\_\_\_ inches and actual precipitation of \_\_\_\_ inches.

Los Angeles has normal precipitation of \_\_\_\_ inches and actual precipitation of \_\_\_\_ inches.

Manila has normal precipitation of \_\_\_\_\_ inches and actual precipitation of \_\_\_\_\_ inches.

Honolulu has normal precipitation of \_\_\_\_\_ inches and actual precipitation of \_\_\_\_\_ inches.

Find 8% of 275.

$$\begin{array}{r} 795 \\ 86 \\ + 41 \\ \hline \end{array}$$





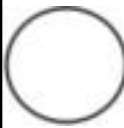







$$\begin{array}{r} 4\frac{5}{10} \\ 5\frac{9}{10} \\ + \frac{6}{10} \\ \hline \end{array}$$

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

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

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

Each row, column, and box must have 6 different pictures.



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:

6	4
---	---

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

Find the difference  
between 1,226 and 556.

Find 25% of 240.

$$\begin{array}{r} 136 \\ - 73 \\ \hline \end{array}$$

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

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

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

$$0.005 \times 0.8$$

$$(11 - 3) + 4 + 4 \times 10$$

$$0.2 \cdot 4 =$$

$$379 + 847 = \underline{\hspace{2cm}}$$

$$6 \times 5 = \underline{\hspace{2cm}}$$

$$13 \text{ km} = \underline{\hspace{2cm}} \text{ m}$$

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

Did you know that you don't always have to use the word **good** in your writing? Try to use different words for an overused word like **good**. It will make your work more fun for others to read.

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

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

Write the words found.

OUTSTANDING	PRODIGIOUS	RELIABLE
MARVELOUS		

Write something using the word **good** at least two times.

---



---



---

Now rewrite your boring writing without using the word **good**.

I can't wait to read it!

---



---



---



---

How many words do you think it takes to improve your writing?

Fifty. That's 50! There are about 50 overused words we often use in writing and conversations.

When you find yourself repeating, try something different. It doesn't take much work to sound amazing!

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

EMERITUS      AFRAID      TRAUMA      MONARCHY  
 EVADE      ADOPT      UTOPIA      GRABBED      KITSCH  
 COOPERATE      POLITICAL      SCENE  
 QUAFF      PAINSTAKING      SELECT      SEAM  
 SHOW      IMPUGN      SUBJUGATION      GABLE  
 CREDITOR      REQUIREMENT

Circle the words that you know. I circled \_\_\_\_\_ words.

Use two of the words you know in a sentence.

---



---

Write five words that you don't know or want to know better.

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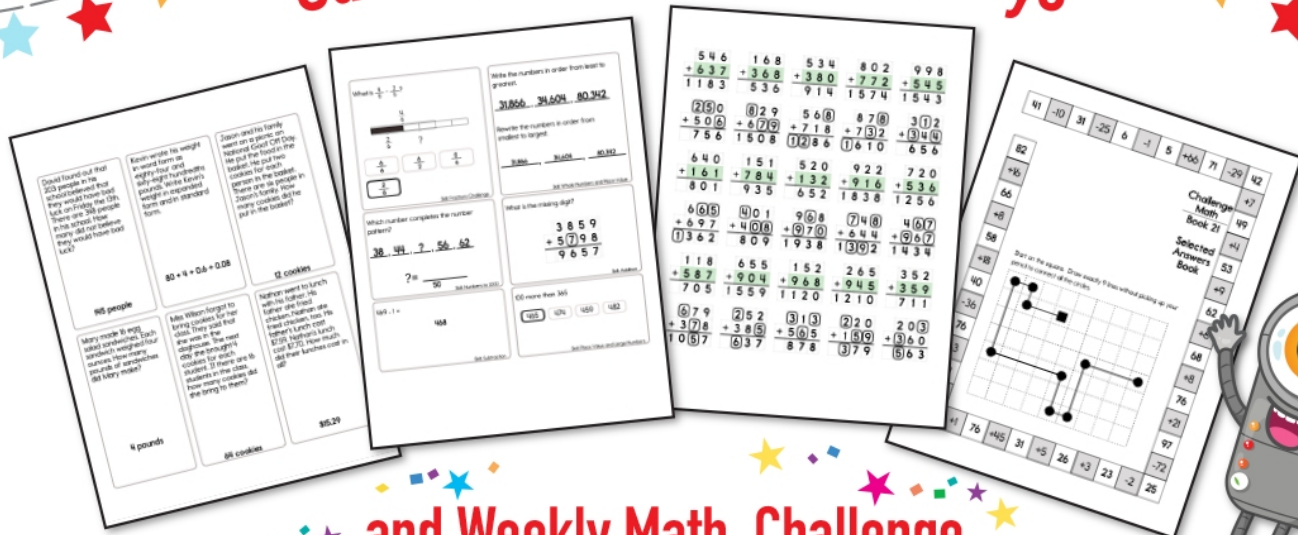
Write three words that are probably overused by writers.

---

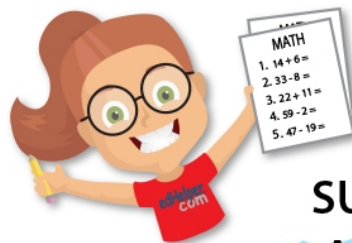
Circle words to the RIGHT or DOWN. Every letter is used exactly ONCE.

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

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