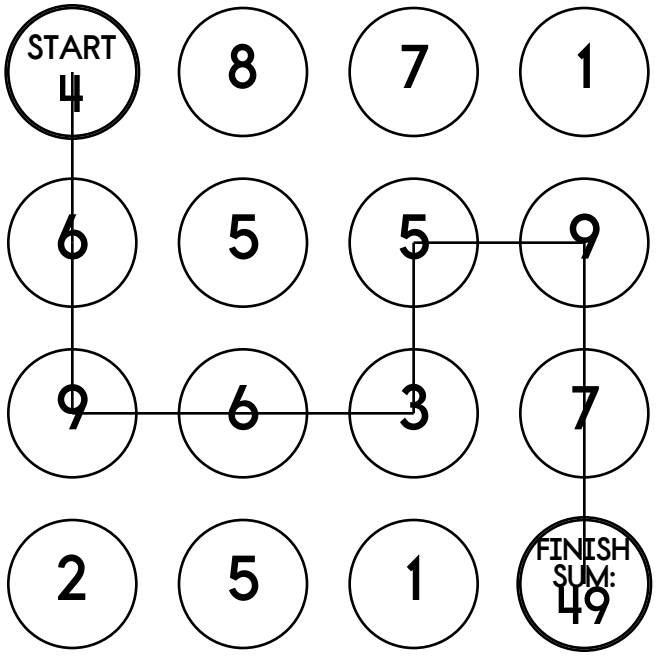
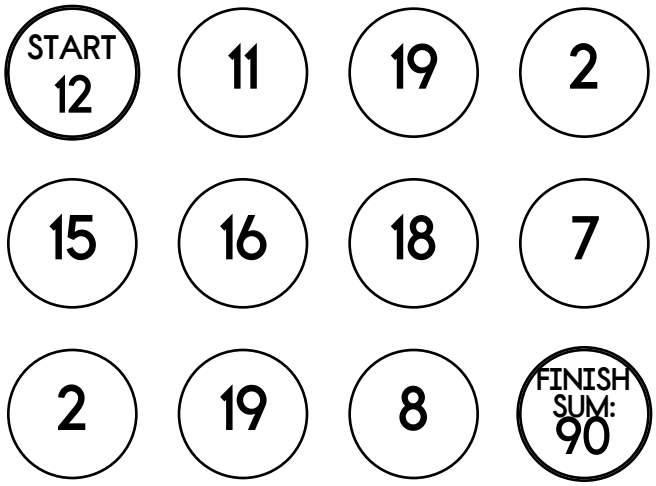
Name: _____

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



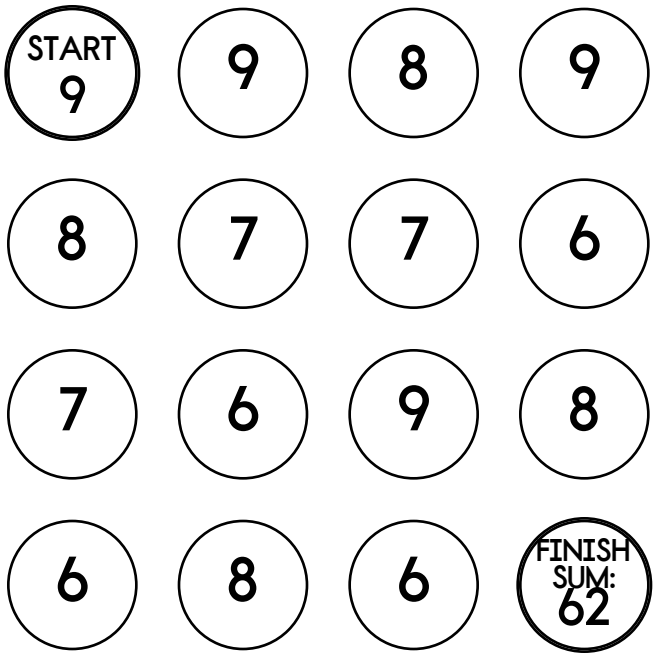
4 + 6 + 9 + 6 + 3 + 5 +

9 + 7 = 49



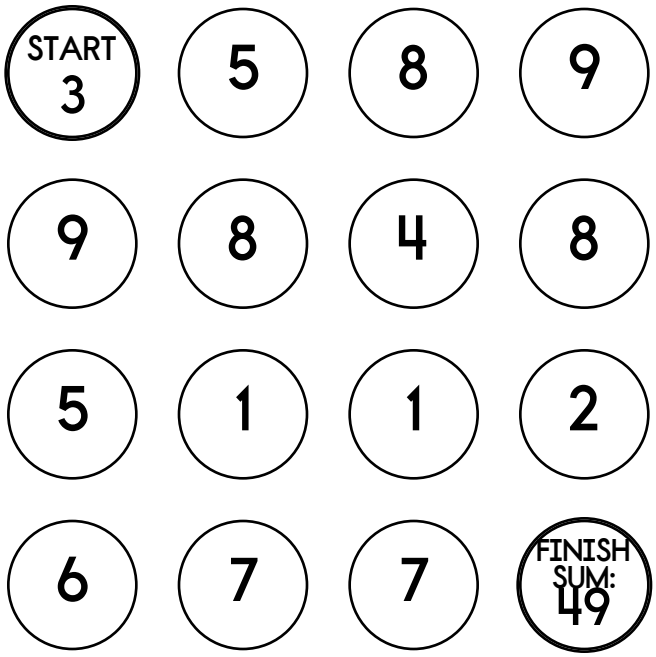
12 + 15 + 2 + _____ + _____ +

_____ + _____ = 90



9 + 9 + 8 + ___ + ___ + ___ +

___ + ___ = 62

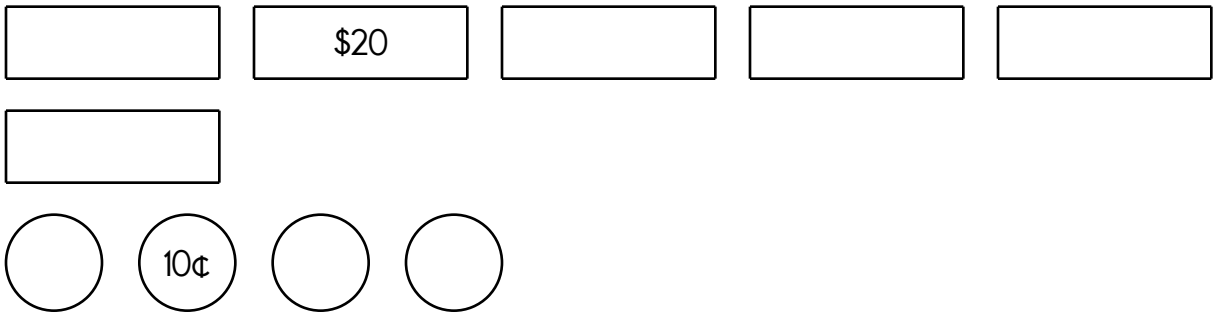


Did you find a path? Write the equation.

Name: _____

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

Make $44.22 using bills and coins.



Show a different way to make $44.22 using a different number of bills or coins.

Make $52.27 using bills and coins.

Show a different way to make $52.27 using a different number of bills or coins.

word root **gnos** can mean **know** **diagnose, prognosis**

Name: _____

Jessica was bored. She asked her mother if she could make cookies. Her mother agreed, so Jessica got busy. She made 3 dozen oatmeal cookies and 20 chocolate chip cookies. How many cookies did she make in all?

Hunter was in charge of making signs to put up around the park showing people where the Dressed Up Pet Parade would be. The materials for each sign cost $1.25. If Hunter made twenty-eight signs, how much money did he spend?

Put one line under the smallest number. Put two lines under the next smallest, and so on.

The largest number should have 4 lines under it.

-4.6 3.1 -4.9 3.2

Anna can't wait for her friend to visit.

"As soon as you leave the airport, drive 34 miles to exit 5," says Anna.

"I don't think you mean miles. They use kilometers here," says Maria.

Help Anna tell Maria how many kilometers to drive. Use 1 mile = 1.6 kilometers.

word root **poly** can mean **many** **polygamy, polyphonic**

Name: _____

Eric was bored. He rode his bicycle 5.5 miles to his friend's house. If his average speed was 3 miles per hour, how long did it take him to get to his friend's house?

Mrs. Wilson recorded the number of voters each hour for 8 hours: 19, 25, 18, 29, 24, 14, 15, and 12. What was the mean number of voters per hour? Round your answer to the nearest number of voters.

It took the Frost-Free Company 91 days to make enough TV dinners to supply the Marks Grocery Stores. How many weeks did it take the company to make the TV dinners?

Mr. Martin bought 4 ties at $26.33 each and 6 pairs of socks at $12.99 per pair. How much did he spend?

The Russian (Cyrillic) alphabet has 33 characters. The English alphabet has 26 characters, and the German alphabet has 30 characters. Write the ratio of German to Russian in simplest terms.

Jessica built a new cabinet for one of her antique radios. The front of the cabinet is 8.3 inches wide and 11.3 inches high. If she doubles the length and width, what will the area be? Round your answer to the nearest hundredth.

Name: _____

Bell Insurance Co. told Mr. Robinson that they have a special life insurance policy for people who do not smoke. That is because the life span of smokers is about 64 years, but for non-smokers it is about 86 years. What is the ratio of the expected life span on smokers to non-smokers? (Express your answer as a fraction in lowest terms.

Ms. Floop liked to do problems in class once in a while that required the students to solve the problems mentally. Today was such a day. They were studying proportions. She began, "I am going to give you a verbal proportions problem. Ready?" The students were ready. She continued, "8 is to 12 as 16 is to _____."

There were 2611 goldfish in the Bigtown University research pond. If 25% of them were less than 1-inch long, how many were greater than 1-inch long? Round to the nearest whole number.

Connor received a gift certificate at the Book Barn, so he decided to give away the books he had read. He divided the books evenly among 3 friends. Each friend got 8 books. Write and solve an equation to find how many books Connor gave away.

Hunter packs boxes of loose tea into cartons for shipping. Each box measures 4 inches x 2 inches x 6 inches. The cartons are 24 inches x 16 inches x 12 inches. How many boxes of loose tea will fit into each carton?

Name: _____

Sudoku Sums of 6

Each row, column, and box must have the numbers 1 through 6.
Hint: Look for sudoku sums. The sum of the two boxes inside of the dashed lines is 6.

Here is an example of a sudoku sum of 6:

2	4

			2		
		1	5		3
	5	4			6
	2				
		6		4	

132 ÷ 12 = _____

$$\begin{array}{r} 413 \\ -\ 364 \\ \hline \end{array}$$

27 kg = _____ g

10 x 11 =

$$\begin{array}{r} 42 \\ +\ 30 \\ \hline \end{array}$$

8 x 7 = _____

685 + 425 = _____

56 ÷ 7 =

$$\begin{array}{r} 40 \\ -\ 25 \\ \hline \end{array}$$

Name: _____

13% of 100 is 13.
13% of 200 is 26.
13% of 500 is 65.

What is 13% of 900?

21,992 + 51,249 = _____

4 x 4 = _____

4 x 8 = _____

Write the missing family fact.

28 x 11 = 308
308 ÷ 28 = 11
308 ÷ 11 = 28

_____

1 cm = 10 mm

11 cm = _____ mm

$$\begin{array}{r} 474 \\ +\ 454 \\ \hline \end{array}$$

5 x 12 = _____

Circle the addition property for 71 + 107 = 107 + 71.

associative property

commutative property

Write the numbers 50 to 80 on a sheet of paper.
How many of these numbers are divisible by 4?

_____

How many inches are in 9 feet?

_____ inches

93,966 + 65,519 = _____

Circle the greatest number:

464,273

3,056,248

71,992,158,307

1,906

How many dimes make $3.40?

48 ÷ 12 = _____

10 x 6 = _____

What time is 13 hours after 1:00 a.m.?

_____

April rolls a die. What is the chance of her rolling a 2?

_____

80 ÷ 8 =

Name: _____

4 x 8 =

5 x 4 = _____

Here is a pattern of letters:

D W S D B D W S D B D W S D B D W S . . .

What letter will be the 31th term in the pattern?

682 - 547 = _____

Circle the digit in the hundredths place.

12.3772

You have four digits to use in an addition problem: 1, 9, 2, and 6. Make up a problem where you have two 2-digit numbers. What is the largest sum you can make?

(9 + 4) + 9 =

11 x 8 = _____

Can 460 be evenly divided by 10? Circle:

460 is NOT evenly divisible by 10

460 is evenly divisible by 10

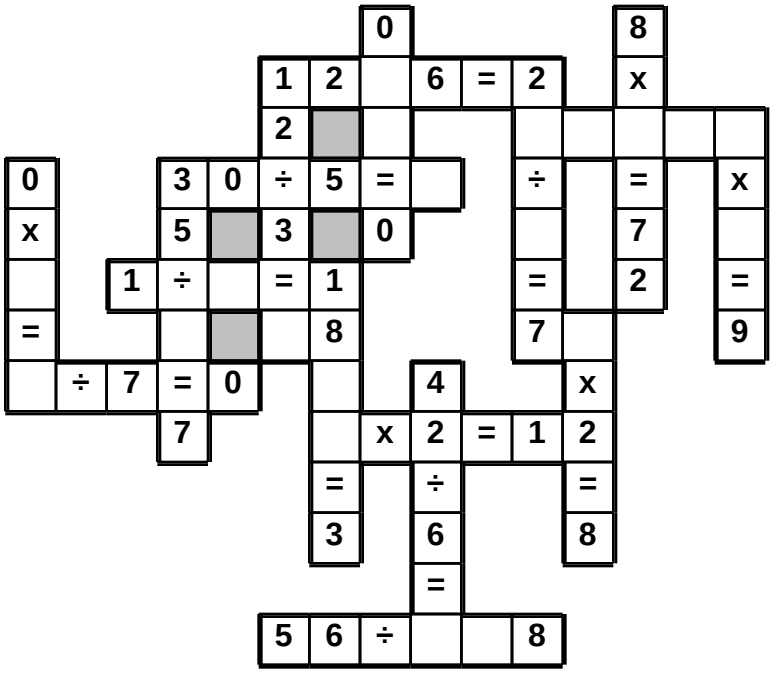
11 x 9 = _____

4 ÷ 2 = _____

Name: _____

÷ • 1 • 1 • x • 9 • = • 9 • 6 • 3 • 1 • 4 • 1 • 5 • 4 • 4 • 0 • ÷ 6 • 7 • =

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



108 ÷ 12 = _____

88 ÷ 11 = _____

11 x 4 = _____

What is the largest possible sum of a three-digit number and a two-digit number? Show the two numbers.

In the number 9,073,282, the digit 3 is in what place?

_____

587 - 263 = _____

Name: _____

There are five objects (a green object, a gray object, a white object, a red object, and a brown object). Each object has a different mass (33 g, 56 g, 17 g, 83 g, and 27 g) and a different volume (54 cubic cm, 11 cubic cm, 16 cubic cm, 61 cubic cm, and 74 cubic cm).
Density = Mass / Volume
Figure out the mass, volume, and density of each object.

1. The red object has a volume of 61 cubic cm and a mass of 83 g.
2. The volume of the red object is not 11 cubic cm.
3. The density of aluminum is 2.7 grams per cubic cm. The brown object is more dense than aluminum.
4. The brown object has a greater mass than the green object.
5. The volume of the white object is not 11 cubic cm and it is also not 54 cubic cm.
6. The gray object has a mass of 56 g and a volume of 74 cubic cm.
7. The red object has a greater mass than the white object.
8. The density of water is 1.0 grams per cubic cm. If the green object was placed in water, it would float.
9. One object has a volume of 54 cubic cm and a density of 0.5 grams per cubic cm.
10. The density of water is 1.0 grams per cubic cm. If the white object was placed in water, it would sink.

green object has a mass of _____, a volume of _____, and a density of _____.

gray object has a mass of _____, a volume of _____, and a density of _____.

white object has a mass of _____, a volume of _____, and a density of _____.

red object has a mass of _____, a volume of _____, and a density of _____.

brown object has a mass of _____, a volume of _____, and a density of _____.

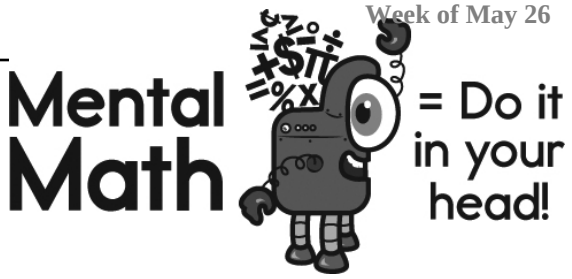
Name: _____

+					675
	798 ____ + ____	911 ____ + ____	____ + ____	600 ____ + ____	____ + 675
	____ + ____	848 ____ + ____	____ + ____	____ + ____	____ + 675
200	200 + ____	200 + ____	1,177 200 + ____	200 + ____	200 + 675
	____ + ____	1,180 ____ + ____	____ + ____	____ + ____	____ + 675
	____ + ____	775 ____ + ____	____ + ____	____ + ____	____ + 675
669	669 + ____	1,068 669 + ____	669 + ____	669 + ____	1,344 669 + 675

786 + 148 = _____

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?



A	B	C	D
imagine 9 in your head add 3 multiply 12 Write the tens digit. ____	imagine 8 in your head double it subtract 8 add 9 Write the ones digit. ____	imagine 4 in your head multiply 3 subtract 9 add 5 Write the number. ____	imagine 7 in your head double it add 1 add 7 subtract 7 add 8 Add the tens digit to the ones digit. Write the sum. ____

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** ____ ____ ____ **-** ____ ____ **u** ____

8 before 18 _____	8 after 15 _____	6 after 12 _____
1 before 16 _____	3 after 16 _____	1 after 19 _____
7 before 17 _____	4 after 14 _____	5 after 13 _____

Name: _____

Write an algebraic expression for each statement.

8,569 more than r

15 less than s

Product of 5 and z

Divide k by 14

Sum of 17 and m

Jessica has 7 pieces of candy. Ava has 8 more pieces of candy than Jessica. How many pieces of candy does Ava have?

Jason has k pieces of candy. Max has 11 more pieces of candy than Jason. How many pieces of candy does Max have?

If k is equal to 9, then how many pieces of candy does Max have?

Amanda has a jar filled with quarters. She doesn't know how many quarters she has, so let's just say she has q quarters. This week she added 4 quarters to the jar. How many quarters are in the jar?

Write another algebraic expression to show how much money is in the jar.

Anna started coding.

k = 36

s = 87

z = k + s

m = 6 + s

If she runs the program, what would be the value of z?

If she runs the program, what would be the value of m?

Name: _____

0.61 - 0.55	0.75 + 0.91	0.54 - 0.8	0.73 + 0.27	0.34 - 0.23	0.68 + 0.8
32.58 + 24.7	11.2 + 11.96	15.66 - 10.41	6.65 + 6.21	28.83 - 19.09	12.57 - 12.38
21.06 + 22.16	10.52 - 10.41	13.31 - 6.32	37.6 + 28.42	25.14 + 31.72	18.78 - 16.3

13.48 - 13.48 = _____

10.16 - 7.67 = _____

20.7 + 17.94 = _____

33.36 - 28.33 = _____

9.71 - 2.3 = _____

20.52 - 14.78 = _____

15.59 + 15.96 = _____

1.13 + 4.2 = _____

28.48 + 23.8 = _____

15.25 + 15.58 = _____

$6 \times 6 \times 6 = Z^y$

What is the value of Z and y?

$|-6| - a = 10$

$a =$

$19.6036 \times 10^3 =$

word root **im** can mean **not or in** **immovable, impose, imposition**

Name: _____

Find the way from START to END by passing through EVERY number that is a multiple of five exactly ONCE. Cross off each box that is NOT a multiple of five. Yes, that means you have to go through ALL the multiple of five boxes. Wow!
You are not allowed to go diagonally. Good luck!

START	27	322	762	744	870	290
820	183	507	984	193	695	110
480	545	371	98	584	100	785
758	115	755	505	506	725	165
785	565	676	100	240	810	320
485	435	335	900	50	410	830
115	793	390	180	392	780	725
715	580	45	485	599	835	995
210	780	465	995	640	55	231
235	490	310	786	427	765	END

Name: _____

Uh-oh, rats have moved into Mr. Bloop's backyard. If the colony has 4 members now but doubles in size every year, how many rats might there be in Mr. Bloop's backyard after three years?

A third of the students in James' class in Perth are immigrants. If there are twenty-one people in the class, how many students are not immigrants?

There are sixty-four mice in the barn. If the ratio of brown mice to gray mice is 1:3 how many gray mice are there?

A sample of ore is found to be 0.0049% gold and 0.062% silver. What is the percent of matter in the ore that is neither gold nor silver?

Holly estimates that four-fifths of a certain type of stone has a mass greater than three-eighths of a gram. If she has 480 of these stones, about how many stones have a mass less than or equal to three-eighths of a gram?

Let's say that a certain force exerts a pressure of 21 Pascals on a square area. If the force is slowly increased until the pressure is 125% of the original pressure, what is the new pressure?

Ana Maria has applied for United States citizenship. She has studied American history and government for a long time and thinks she is ready to take the citizenship test. When she took the practice test online she answered forty-four questions correctly and only missed three. What percent of the questions did she get right?

Connor has a record of winning 3 boxing matches for every 4 he loses. If he had 37 matches during the last year, how many did he win?

Name: _____

X		12				
7	7 x ___	7 x 12	7 x ___	28 7 x ___	84 7 x ___	7 x ___
	___ x ___	___ x 12	___ x ___	44 ___ x ___	132 ___ x ___	___ x ___
	___ x ___	24 ___ x 12	14 ___ x ___	___ x ___	___ x ___	24 ___ x ___
	120 ___ x ___	___ x 12	___ x ___	40 ___ x ___	___ x ___	___ x ___
	___ x ___	___ x 12	___ x ___	___ x ___	___ x ___	24 ___ x ___
	120 ___ x ___	___ x 12	___ x ___	___ x ___	___ x ___	___ x ___
5	5 x ___	60 5 x 12	5 x ___	5 x ___	5 x ___	5 x ___
	___ x ___	36 ___ x 12	___ x ___	___ x ___	___ x ___	___ x ___

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

nine hundred ninety-seven thousand, four hundred eighteen

_____

12 x 5 = _____

5 x 11 =

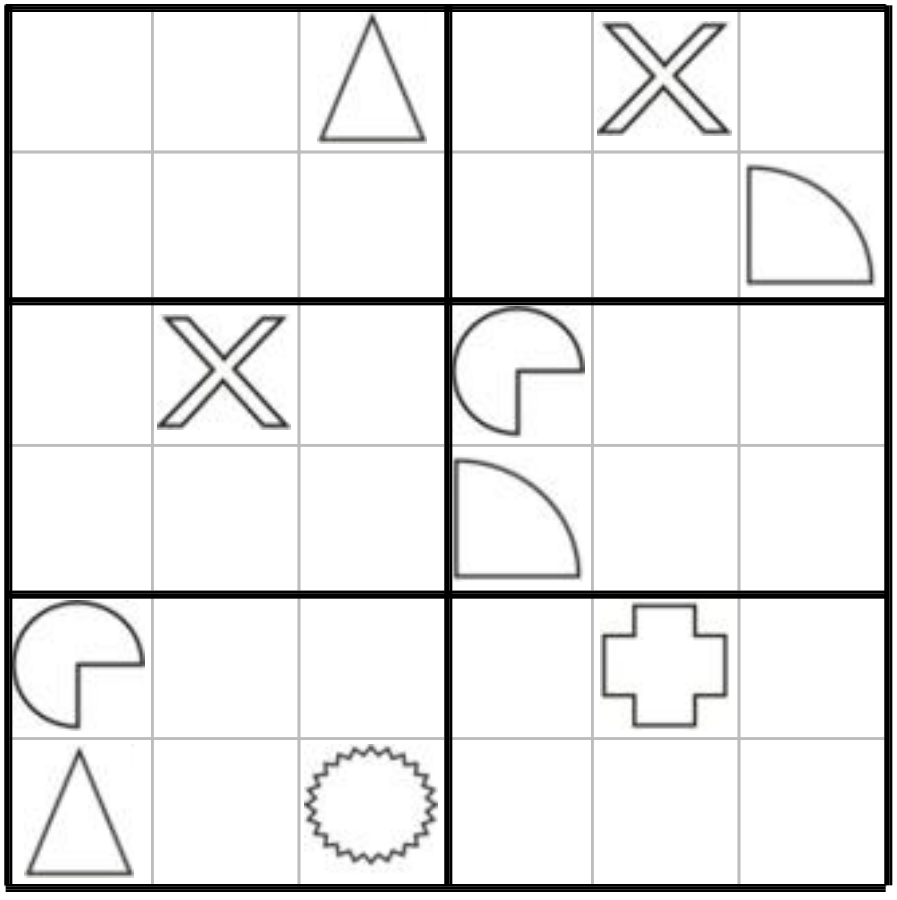
word root **vol** can mean **will** **volunteer, volition**

Name: _____

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

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

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



Name: _____

Sudoku Sums of 7

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 7.

Here is an example of a sudoku sum of 7:

3	4

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

$$\begin{array}{r} 156.615 \\ +\ \ 8.77 \\ \hline \end{array}$$

$$\begin{array}{r} 769 \\ -\ 373 \\ \hline \end{array}$$

Find 20% of 310.

Name: _____

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

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

Change $\frac{480}{108}$ to a mixed number.

$$\begin{array}{r} 47 \\ 83 \\ +\ 28 \\ \hline \end{array}$$

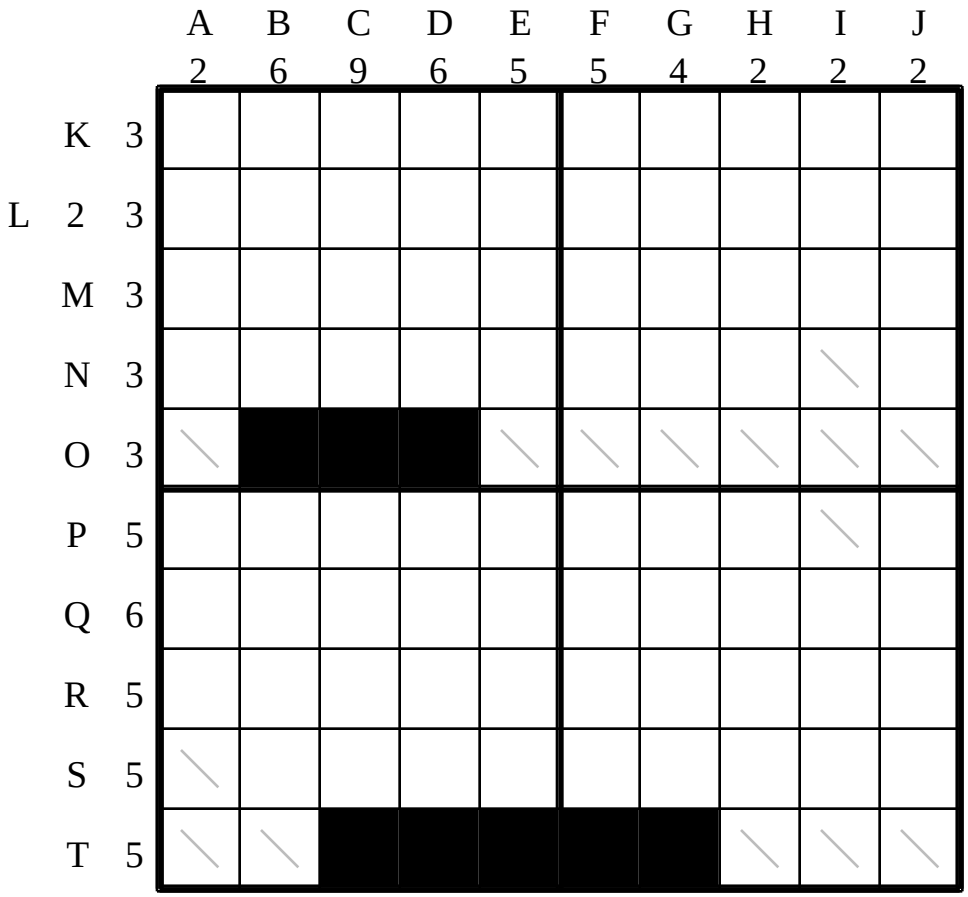
Change $\frac{1}{10}$ to a percent.

word root **later** can mean **side** **lateral, laterally, unilateral**

Name: _____

Color Squares Puzzle

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



CLUE A: Color in 2 consecutive boxes.
CLUE B: Color in 6 consecutive boxes.
CLUE C: Color in 9 consecutive boxes.
CLUE D: Color in 6 consecutive boxes.
CLUE E: Color in 5 consecutive boxes.
CLUE F: Color in 5 consecutive boxes.
CLUE G: Color in 4 consecutive boxes.
CLUE H: Color in 2 consecutive boxes.
CLUE I: Color in 2 consecutive boxes.
CLUE J: Color in 2 consecutive boxes.
CLUE K: Color in 3 consecutive boxes.
CLUE L: Color in 2 consecutive boxes.Then color at least one blank. Then color in 3 consecutive boxes..
CLUE M: Color in 3 consecutive boxes.
CLUE N: Color in 3 consecutive boxes.
CLUE O: Color in 3 consecutive boxes.
CLUE P: Color in 5 consecutive boxes.
CLUE Q: Color in 6 consecutive boxes.
CLUE R: Color in 5 consecutive boxes.
CLUE S: Color in 5 consecutive boxes.
CLUE T: Color in 5 consecutive boxes.

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

Name: _____

Can you guess the word?

No duplicate letters can be used.

S	C	A	R	F

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

P	R	I	Z	E

The letter R is in the word, but R 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.

A	R	G	U	E
R	O	Y	A	L
H	A	R	D	Y

B C F I J K M N P Q S T V W X Z

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

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

Hint: There are no duplicate letters in the answer.

B	A	D	G	E
T	R	A	C	E

F H I J K L M N O P Q S U V W X Y Z

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

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

Hint: There are no duplicate letters in the answer.

R	A	I	S	E
P	O	R	C	H

B D F G J K L M N Q T U V W X Y Z

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

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

Name: _____

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

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

Write the words found.

SENSATIONS _____ COMPETITIONS _____

WRISTS _____ SPY _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____

74,126 - 23,519 = _____

What should replace the S in this equation?

24 ÷ 6 + S = 18

Name: _____

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

WARY

earnest
demanding
trusting
suspicious
hostile

BANAL

legible
dismissive
commonplace
exotic
reverent

GOUGE

allow
scoop
strain
scrape
measure

DEPLORE

instill
heal
enamor
query
detest

DYNAMIC

charming
energetic
stagnant
explosive
persuasive

URBANE

uneducated
refined
evil
metropolitan
cute

IGNITE

snuff out
spark
construct
relax
evening party

DEBILITATED

vilified
empowered
weakened
free
attentive

RATIFY

to win a game
to pass a law
to write a treaty
to lose money
to become ill

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

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

Name: _____

What's in the Box?

Read the words on the left then match the letters with the correct synonyms in the clues.
Put the clues together and solve the mystery of what is in the box.

A =courteous
C =aroma
D =confident
E =bungle
I =command
L =edible
O =hazy
P =immense
R =perish
S =reign
T =retain
U =navigate
X =slither
Z =exasperate

Clue 1:	rule	dictate	slink				
	s	**i**	_____				
Clue 2:	rule	dictate	assured	botch	rule		
	_____	_____	_____	_____	_____		
Clue 3:	gigantic	steer	annoy	annoy	eatable	botch	
	_____	_____	_____	_____	_____	_____	
Clue 4:	smell	misty	eatable	misty	die	botch	assured
	_____	_____	_____	_____	_____	_____	_____
Clue 5:	die	misty	keep	polite	keep	botch	
	_____	_____	_____	_____	_____	_____	

What's in the Box? _____

84,357 - 25,123 = _____

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

_____

Maria took three numbers greater than 1 and multiplied them. One number was five and the other number was twelve. Of course, she forgot the last number, but she remembered the product was 840. Is this possible?

For 6,104,223,937,420, write the digit that is in the hundred thousands place.

_____

110 ÷ 10 = _____

48 ÷ 8 = _____

Circle the smallest number:

3,598,162,704 82,435,106,794
9,726 51,038,478

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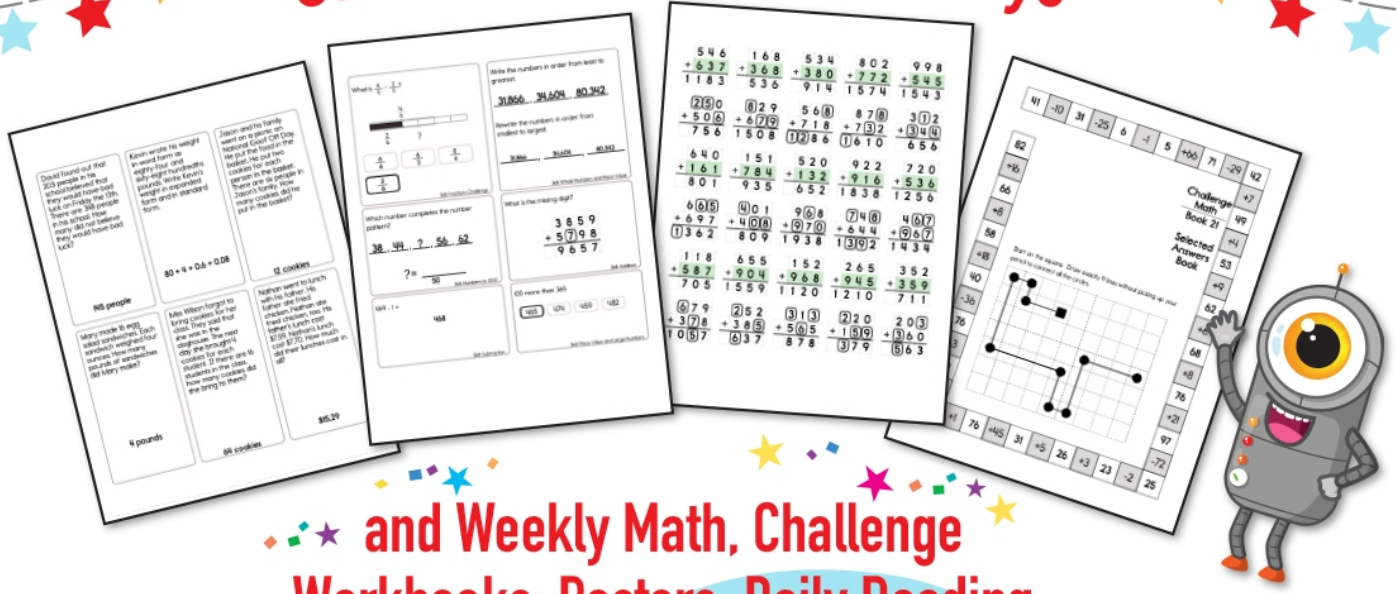

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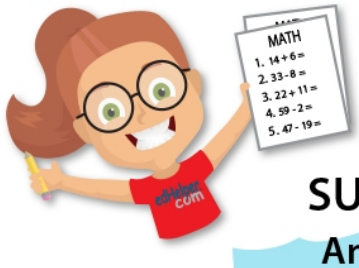

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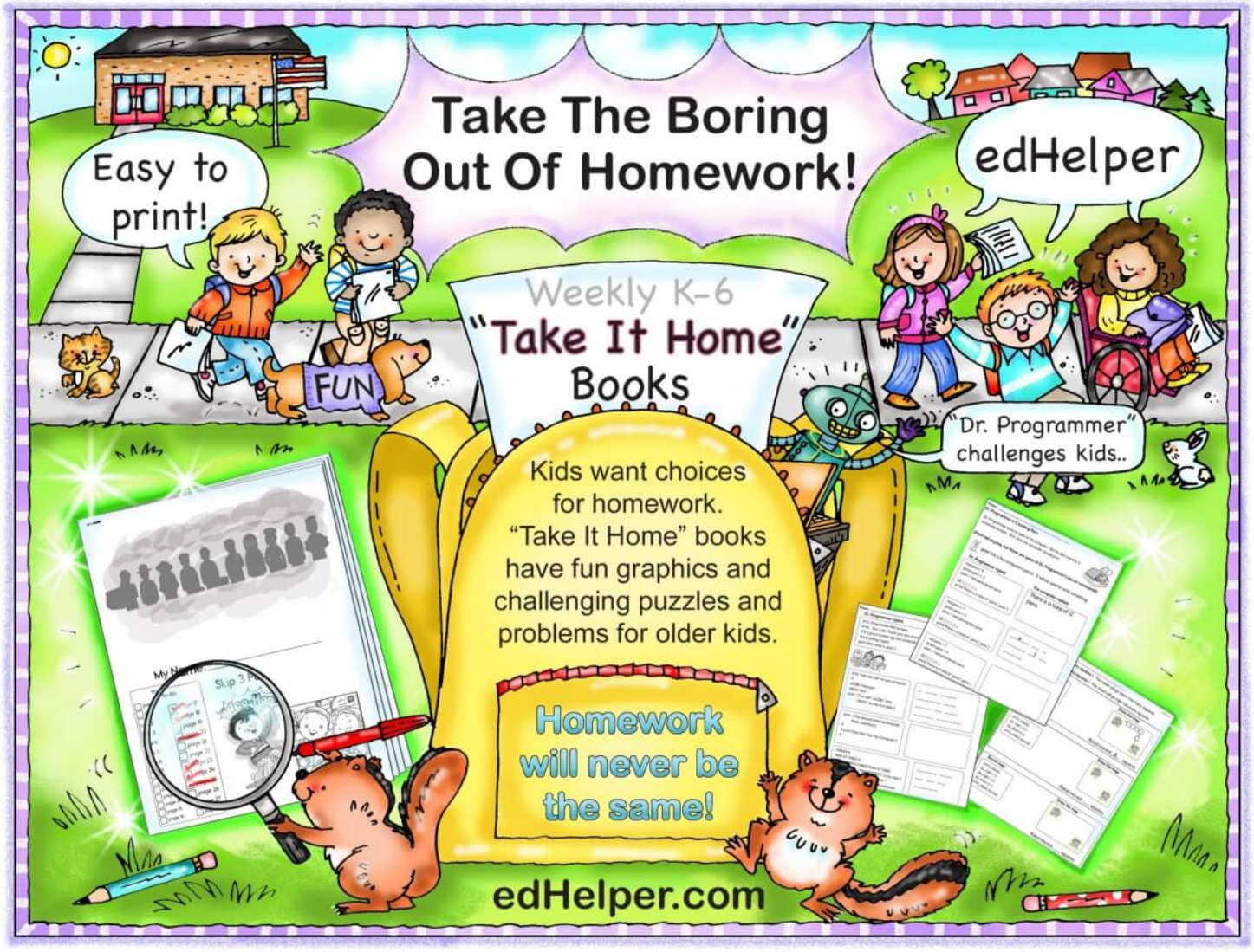
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