Name: _____

Puzzle:

					54
					61
					67
					57
		11			66
75	51	50	63	66	+

Work Area:

					54
					61
					67
					57
		11			66
75	51	50	63	66	+

The sum for each column and row is given.

 = _____  = _____  = _____

 = _____  = _____

$$7\frac{6}{8} + 8\frac{5}{8} = \_\_\_\_\_$$

Convert to a fraction or mixed number and simplify.

73.52 =

6.5 =

21.48 =

0.98 =

0.5 =

0.9 =

Change to decimals.

74% = _____

70% = _____

64% = _____

2% = _____

How many inches are in 3 feet?

_____ inches

Name: _____

Find the way from START to END by passing only through numbers that are multiples of seven.

You can go up, down, left, right, AND diagonally!

START	770	281	237	136	589	591
625	980	777	840	672	523	402
775	763	462	959	14	842	162
810	749	259	763	273	11	428
451	24	520	200	301	56	315
782	937	907	430	18	892	406
328	326	254	109	888	703	336
164	903	665	492	514	749	0
977	154	315	574	553	91	10
752	763	889	959	616	364	END

Name: _____

There are three sticks on the table. Each stick is a different color. How many ways are there to arrange the sticks in a line so that no two arrangements have the same color sequence?

Alex is measuring the distance around some pine trees in the local state park. He is trying to find the biggest pine tree in the county. He finds several trees with circumferences greater than 1.6 meters. What is the minimum diameter of one of these trees? Round your answer to the nearest hundredth.

There is a herd of ibex (kind of like antelope) out on the range. Fifty-two percent of the ibex are male. If the herd consists of 1,123 individuals, how many are female?

If the ratio of saturated to unsaturated fatty acids in a cell membrane is 9 to 1, and there are a total of 78 billion fatty acid molecules, how many of them are saturated?

At the Megalopolis Zoo they make a special feed to provide to their exotic birds. It is (by mass) $\frac{1}{3}$ super meal, $\frac{1}{4}$ commercial birdseed, and one-fourth cracked corn. The rest is made up of Nutro Feedofill. How much commercial birdseed is required to make 129 kilograms of the special feed? If the answer is not a whole number, express your answer as a fraction.

Soils around the world vary in their organic matter content. Organic matter comes from living things or things that used to be alive. For example, in comparing a soil from Nebraska to one from Arizona, it would not be unusual for the Nebraska soil to have a greater amount of organic matter by a factor of 5 to 2. If you had two such samples and the sample from Arizona contained 5 g of organic matter, how many grams of organic matter would there be in Nebraska soil of equal mass? Round your answer to the nearest hundredth.

Name: _____

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

T		D		S	T	R		C	T
R	F	M			N	T			N
	R		C		N	C		L	
C	N	D	H		S	T		R	Y
	R		N	S		S	T	P	P
L	I	G			R	D	B	R	
L	G	S	C	R		P			B
	I	R	B	R		V		F	B
D	D		X	P		R	T		L
	F		L			G		R	

HISTORY • RIGID • MOUNTAIN
COLLIDE • INSIST • RECONCILE
GUARD • DISTRACT • BRAVE
SCRAPE • PREFER • FOLIAGE • PEBBLE
EXPORT

5 x 2 = _____

$$\begin{array}{r} 455 \\ +\ 389 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ +\ 44 \\ \hline \end{array}$$

$$\begin{array}{r} 79 \\ -\ 19 \\ \hline \end{array}$$

Rewrite these in increasing order of length:

805 mm, 260 km, 343 m

Six-sevenths of the children in Robinson's class want to go outside. If Robinson agrees with the majority, will the class stay inside or go outside?

80 ÷ 10 = _____

1 lb = 16 oz

10 lb = _____ oz

16 km = _____ m

Name: _____

40 ÷ 5 =

36% of 100 is 36.
36% of 200 is 72.
36% of 500 is 180.

What is 36% of 700?

Circle the addition property for 70 + 38 = 38 + 70.

commutative property

associative property

40 ÷ 10 =

2,949 - 1,169 = _____

8 x 9 =

$$\begin{array}{r} 677 \\ -\ 195 \\ \hline \end{array}$$

33 ÷ 3 = _____

6 x 12 = _____

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.

Circle the smallest number:

837,056,124

69,817,464,038

25,197,409

3,205

24 ÷ 12 = _____

8 x 5 = _____

80 ÷ 10 = _____

972 - 198 = _____

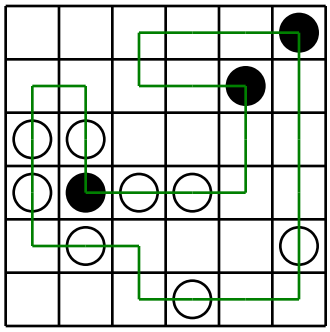
What number is halfway between 17 and 32?

Circle the greatest number:

8,792,364,501 28,690,157,439

58,071,234 570,864,312

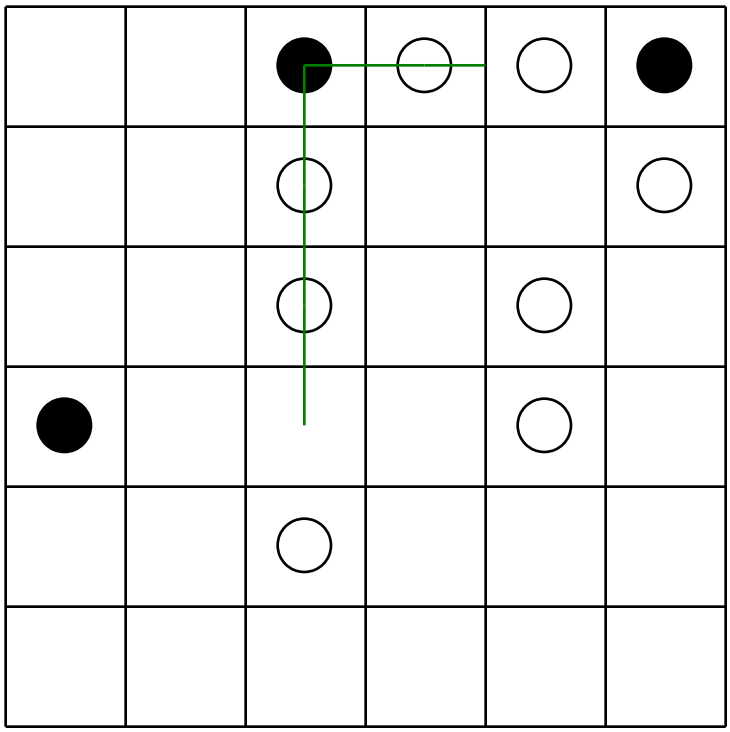
Name: _____



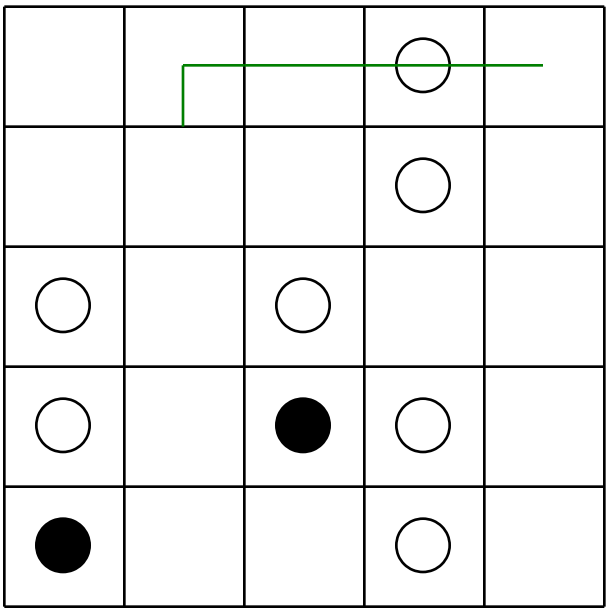
Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn.
You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

The puzzle on the left shows a correct line going through all the circles.

Finish the line:



Finish the line:



(9 + 7) + 7 =

48,315 + 61,251 = _____

Mary and Maria are playing a number game.
Mary says 1. Maria replies that the answer is 1.
Mary says 4. Maria replies that the answer is 2.
Mary says 16. Maria replies that the answer is 4.
Mary says 49. Maria is thinking. What number should Maria reply with?

120 ÷ 12 = _____

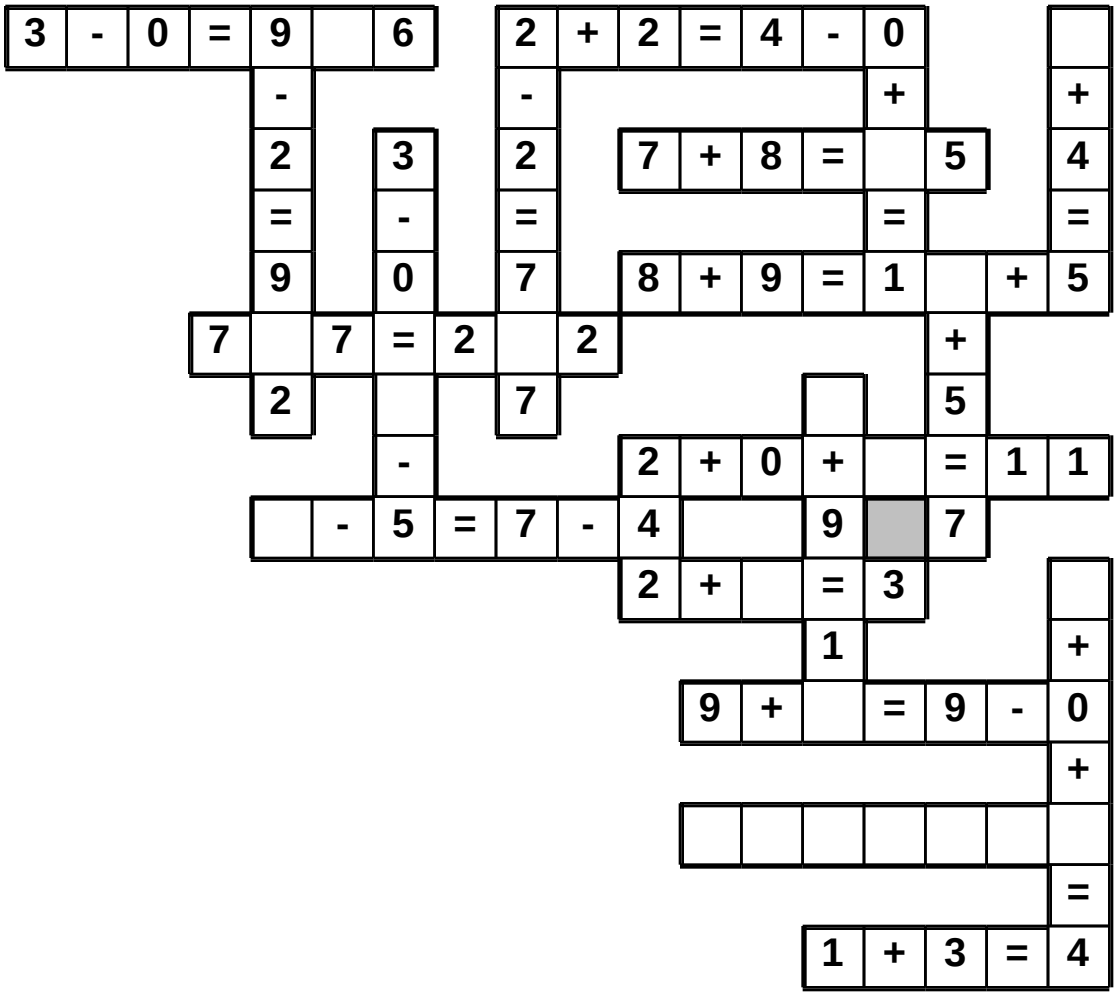
10 x 3 = _____

6 x 6 = _____

Name: _____

- • 1 • 1 • 2 • - • - • 8 • 1 • 9 • 8 • 1 • 2 • 0 • 5 • - • 2 • =
5 • - • 2

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



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

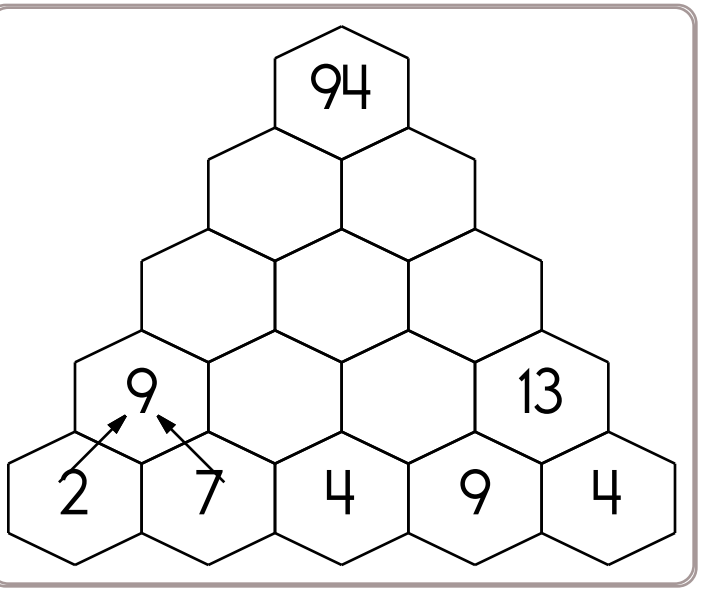
three hundred seventy-one thousand,
nine hundred sixty-six

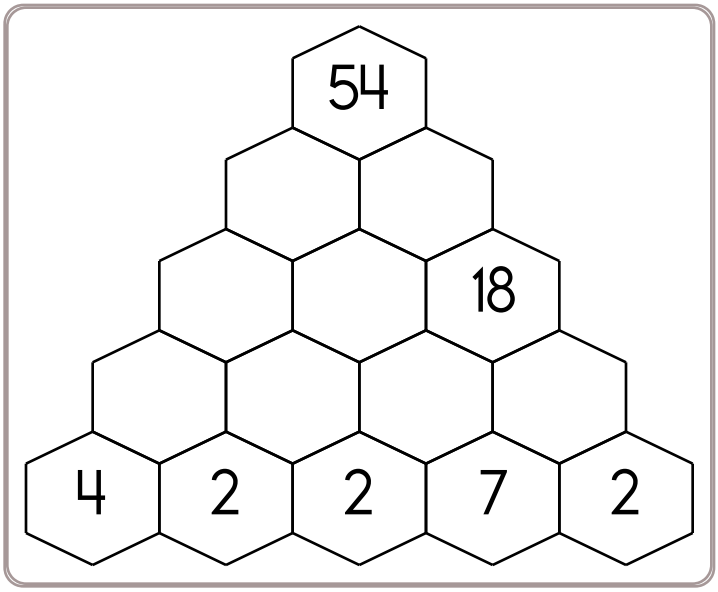
_____

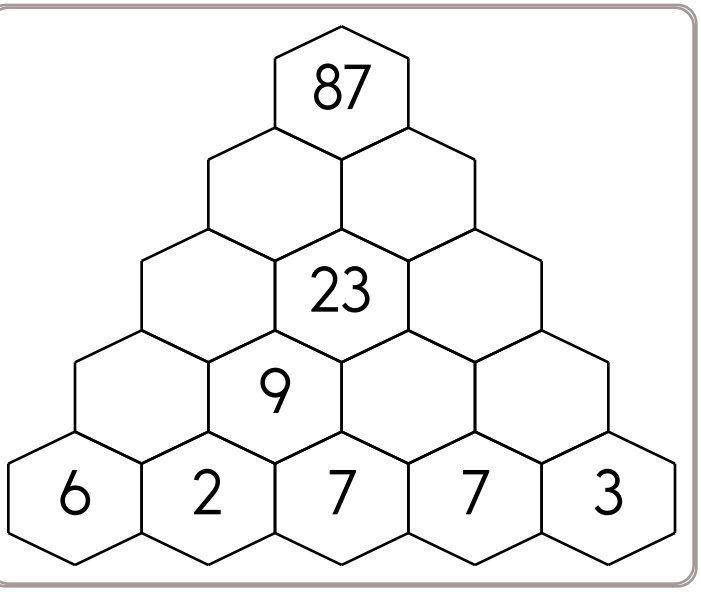
67,681 + 45,356 = _____

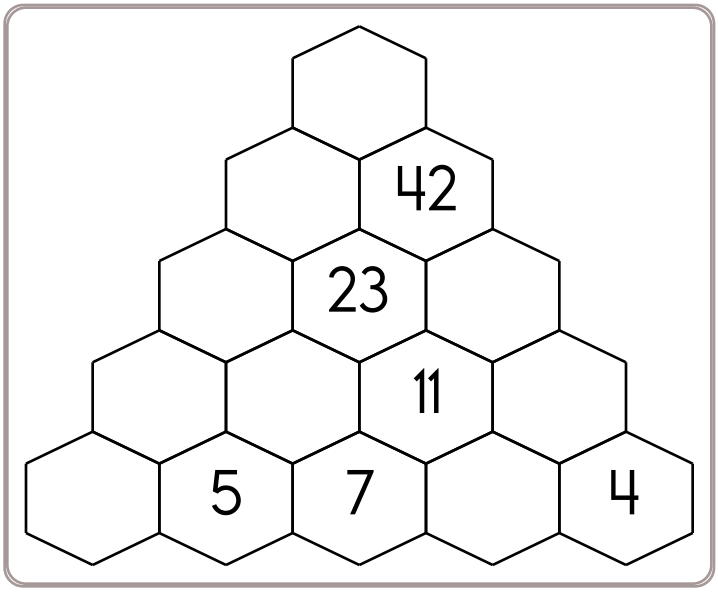
Name: _____

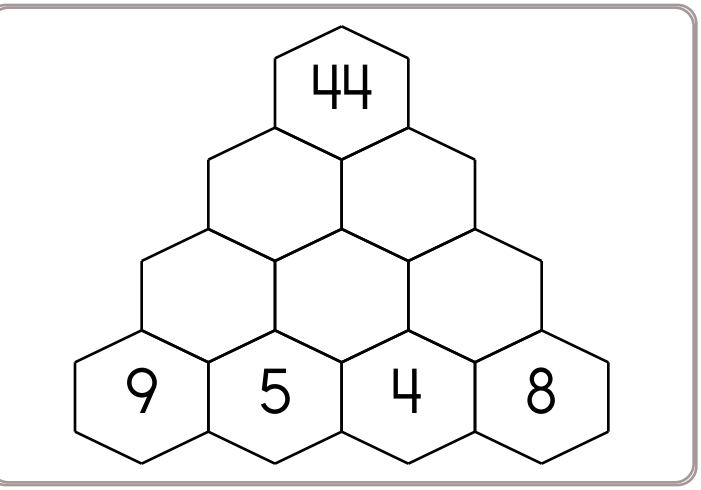
Fill in the blanks by adding the two numbers below each hexagon.

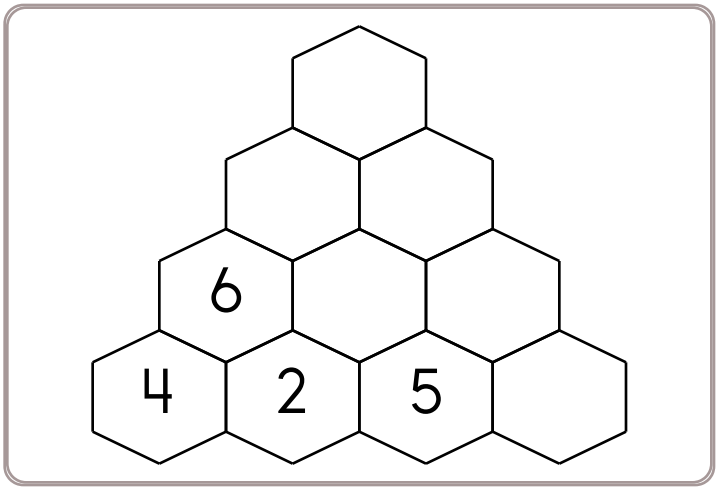










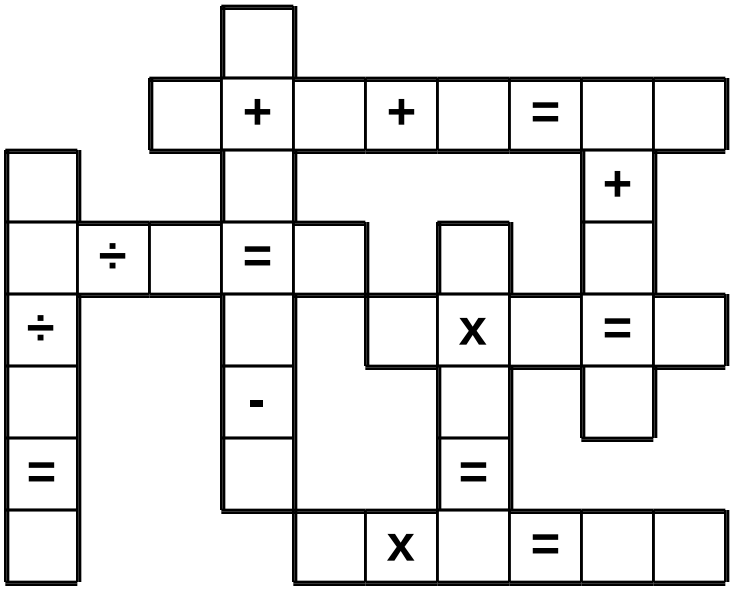


word root **sanct** can mean **holy** **sanctuary, sanctify**

Name: _____

3 • 2 • 0 • 8 • 1 • 0 • 4 • 5 • 9 • 9 • 1 • 1 • 7 • 8 • 0 • 4
0 • 7 • 6 • 8 • 0 • 7 • 4 • 6 • 2 • 4

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



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

|58| + [-32| =

25, 30, 35, 40, 45, 50, 55,

60, _____, 70

t - 6 + t = 34
What is the value of t?

Simplify.

$\frac{3{,}800}{11{,}400}$ =

Simplify.

$\frac{15}{21}$ =

Name: _____

Write an algebraic expression for each statement.

7 groups of r

Subtract z from 1,381

Sum of 15 and k

Quotient of s and 9

5,879 more than m

Mary has 15 pieces of candy. Pam has 7 more pieces of candy than Mary. How many pieces of candy does Pam have?

Gavin has k pieces of candy. David has 9 more pieces of candy than Gavin. How many pieces of candy does David have?

If k is equal to 10, then how many pieces of candy does David have?

Megan 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 6 quarters to the jar. How many quarters are in the jar?

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

Maria started coding.

k = 22

r = 87

m = k + r

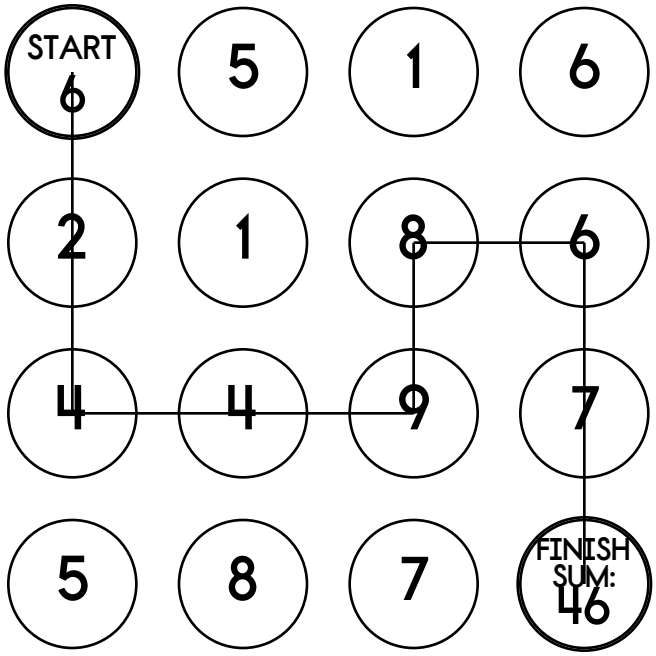
s = 9 + r

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

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

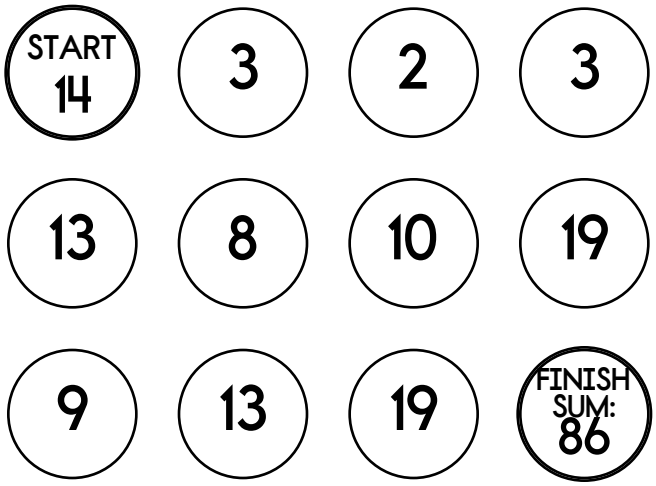
Name: _____

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



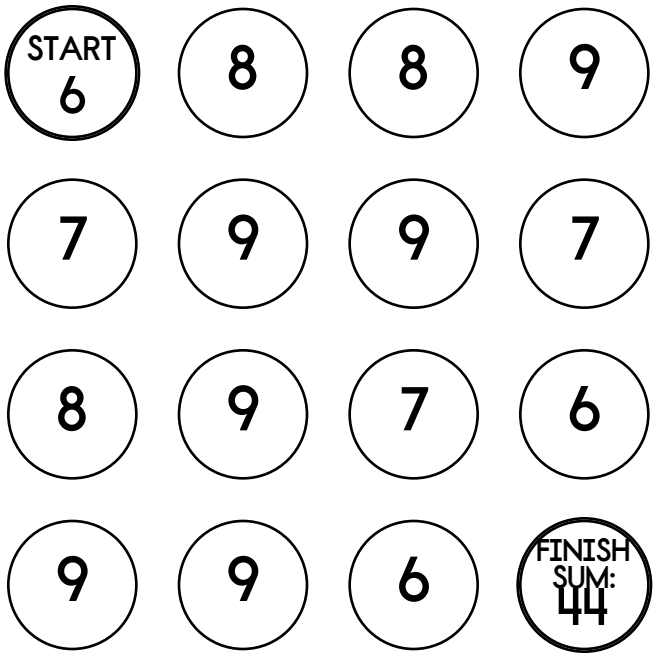
6 + 2 + 4 + 4 + 9 + 8 +

6 + 7 = 46

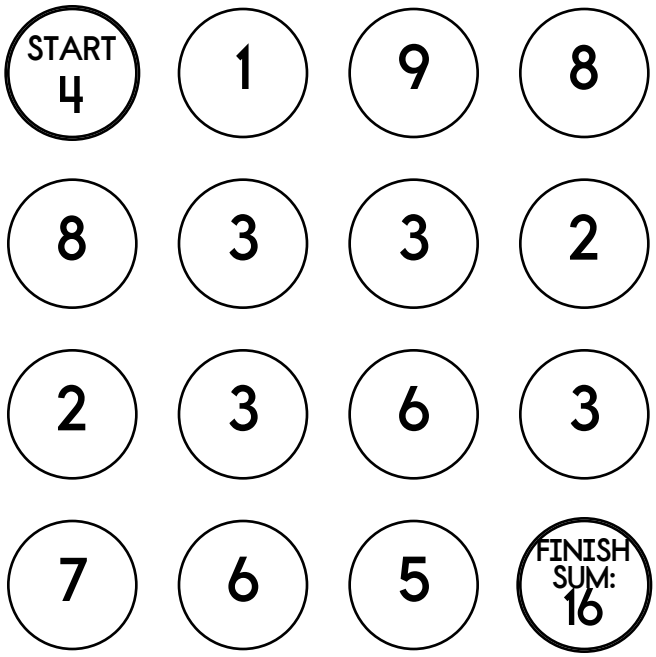


14 + 13 + 9 + _____ + _____ +

_____ + _____ = 86



Did you find a path? Write the equation.



4 + ___ + ___ + ___ + ___ + ___ =

16

Name: _____

Rosa babysat Jenna and was paid $60 for 6 hours of work. How much was she paid per hour?

She plans to babysit Jenna next week and will be paid at the same rate. If she works 10 hours next week, how much will she be paid?

Hannah is playing the Zeepers app where she needs to fly her spaceship to different planets. Her spaceship uses Zinko fuel and can travel 3,472,000 miles on 7 cups of Zinko. If her spaceship currently has 10 cups of Zinko, what is the maximum distance it can fly before running out of fuel?

At City Laundromat they have 9 extra large-sized washers that can do 18 loads of laundry in 50 minutes.

How many loads of laundry can one machine do in 50 minutes?

Hint: The amount of time is the same. The only thing that changes is instead of nine machines there is only one. You will need to divide.

A robot went a distance of 3,965 meters in 3 hours. What was its speed?

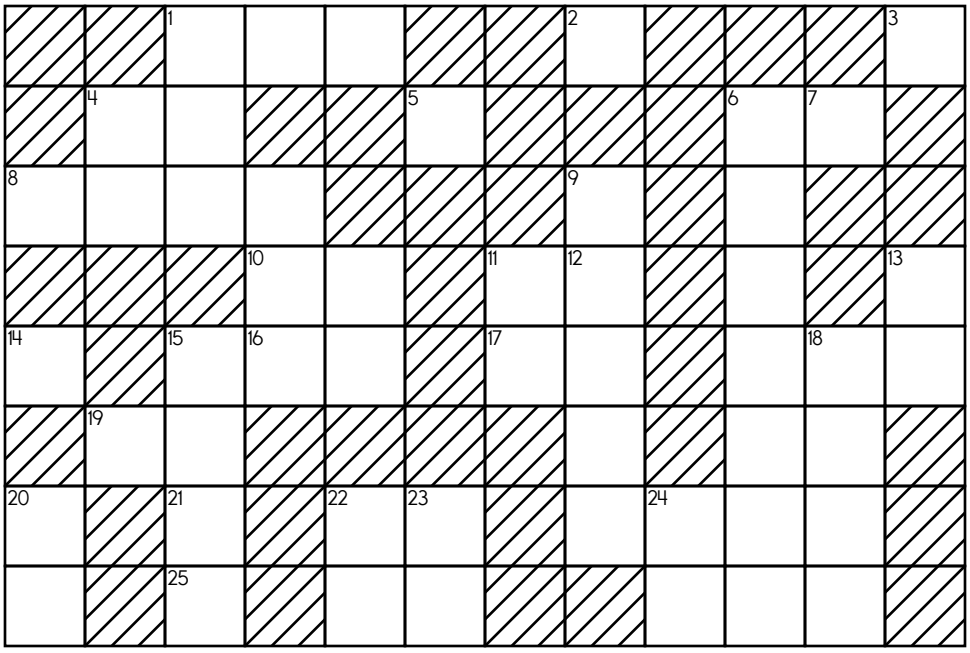
Name: _____

ACROSS

1. What is the lowest common multiple of 22-Across and 10-Across?
2. **7**
3. One-third of 16-Across
4. The factors of 54 are 1, 2, 3, 6, 9, 18, __, 54.
5. How many factors does 6 have?
8. 9-Across plus 12-Down
9. Sum of digits of 21-Down
10. The factors of 28 are 1, 2, 4, 7, __, 28.
11. 18
14. Sum of digits of 10-Across
16. The factors of 45 are 1, 3, 5, 9, __, 45.
17. What is the lowest common multiple of 2-Across and 4-Down?
19. Sum of digits of 1-Across
22. First prime number after 2-Across
25. How many factors does 10 have?

DOWN

4. 9 + 12
5. How many factors does 58 have?
6. one million, seven hundred fifty-nine thousand, seven hundred seven
7. How many factors does 50 have?
8. How many factors does 56 have?
10. Its digits total 2
11. Six less than 11-Across
12. eight thousand, one hundred twenty-five
13. First composite number after 17-Across
15. Average of 18-Down and 11-Down
18. the ones in 9-Across + the tens in 8-Across + the thousands in 12-Down
20. Eight times 7-Down
21. 9 + 15
22. Seven more than 7-Down
23. Average of 16-Across and 2-Across
24. The factors of 56 are 1, 2, 4, 7, 8, 14, __, 56.



Name: _____

Can you guess the word?

No duplicate letters can be used.

L	O	A	T	H	E

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

C	A	R	P	E	T

The letter A is in the word, but A 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	C	T	O	R
P	A	C	K	E	T

B D G H I J L M N Q S U V W X Y Z

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

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

Hint: There are no duplicate letters in the answer.

E	N	G	U	L	F
D	E	P	A	R	T
B	E	T	R	A	Y

C H I J K M O Q S V W X Z

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

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

Hint: There are no duplicate letters in the answer.

L	A	R	Y	N	X
S	H	R	I	E	K

B C D F G J M O P Q T U V W Z

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

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

Name: _____

Hint: There are no duplicate letters in the answer.

E	X	P	O	R	T
O	B	T	U	S	E
L	O	C	A	T	E

D F G H I J K M N Q V W Y Z

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

P Q E X P O R T O B X H X T L
O Y T C X H E T B X P E B X O
T T A U O S B P T E B A O D A
H H T A R D E U U W B M J B T
H R H E L R L E S O X E T E H
Z T X R X T E T E O O H A D E

Hint: There are no duplicate letters in the answer.

E	X	P	O	R	T
O	B	T	U	S	E
L	O	C	A	T	E

D F G H I J K M N Q V W Y Z

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

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

Hint: There are no duplicate letters in the answer.

T	R	I	P	L	E
H	U	N	G	R	Y
R	A	N	D	O	M

B C F J K Q S V W X Z

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

D O L R D N C H N C A H N G N
N N C N A E C A U R A N N N E
R N A U A N A A N N Y D R K O
A C R R U B D R N D G J A O Z
R M Z A Y N T O G A O R Y H R
X N T Y Y N R A M C W R Y O T

Hint: There are no duplicate letters in the answer.

S	T	U	P	O	R
R	E	C	O	I	L

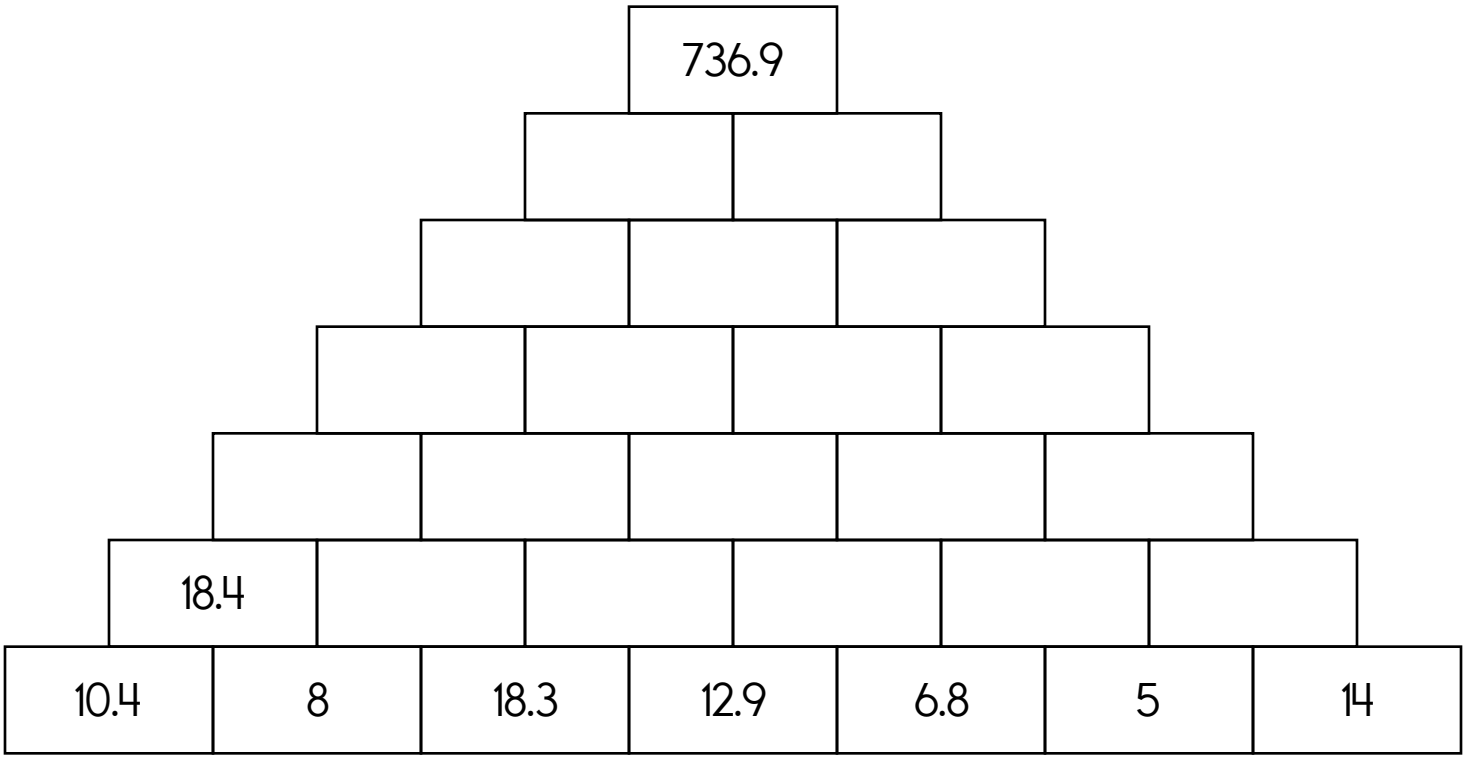
A B D F G H J K M N Q V W X Y Z

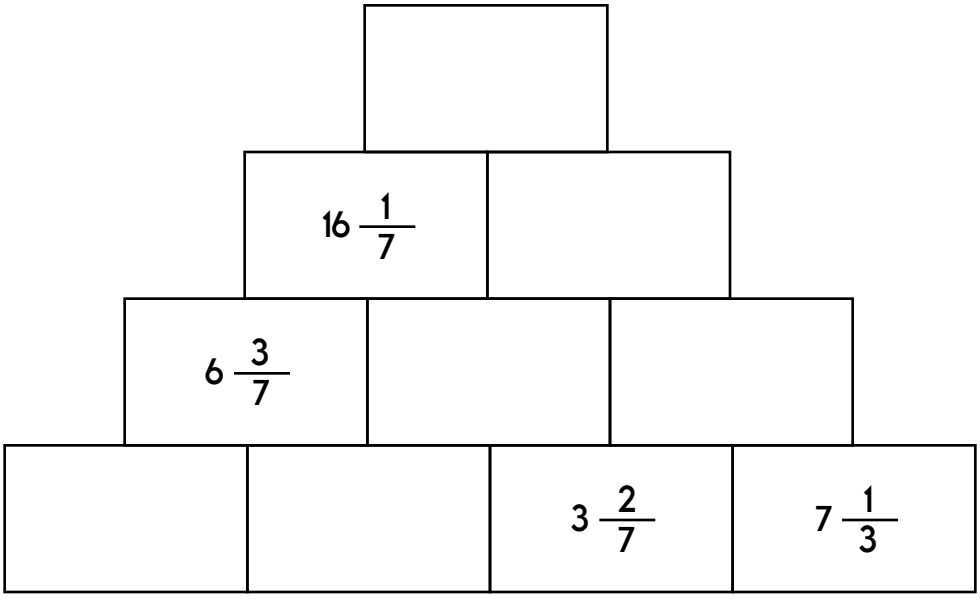
Let's check if you guessed correctly. Look diagonally to find the correct answer. (DIAGONAL!)

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

Name: _____

The block above is the sum of the two blocks below. Fill in the missing blocks.





3 x 5 = _____	11 x 12 = _____	Write an equation to represent this: The sum of four and twelve is sixteen. _____

word root **hum** can mean **earth** **humble, exhume**

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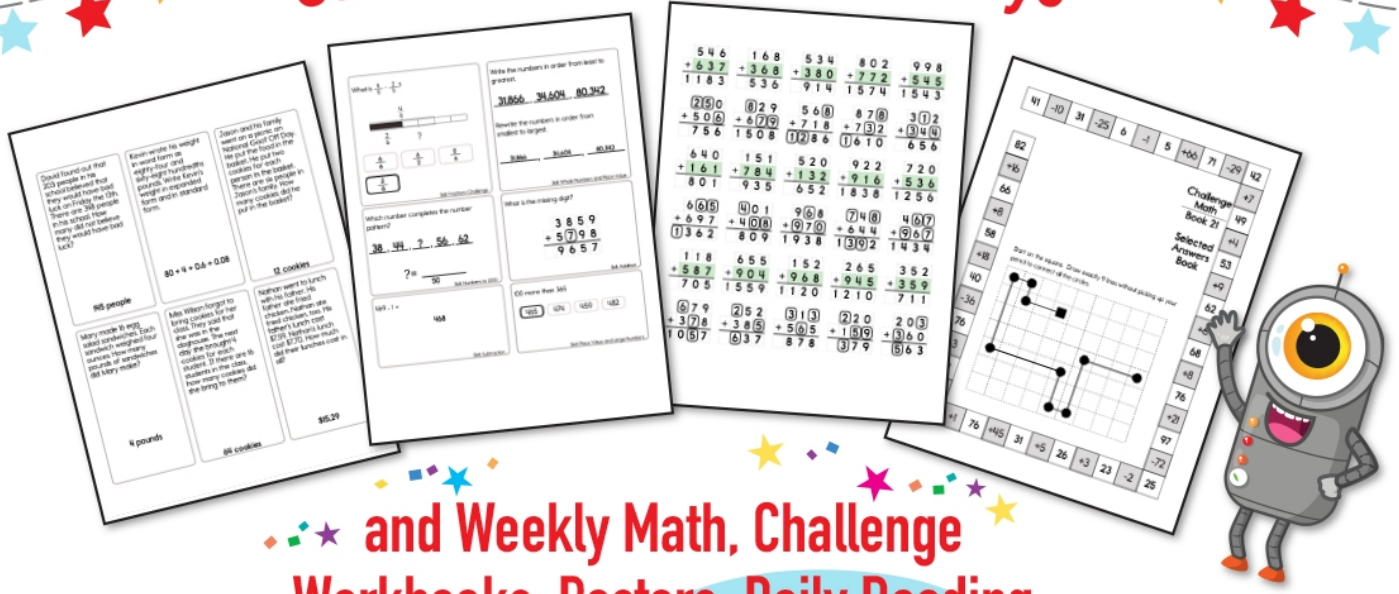

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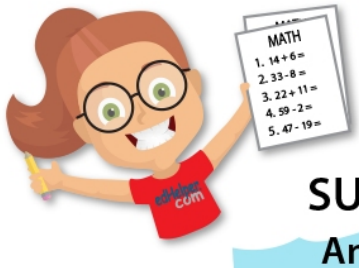

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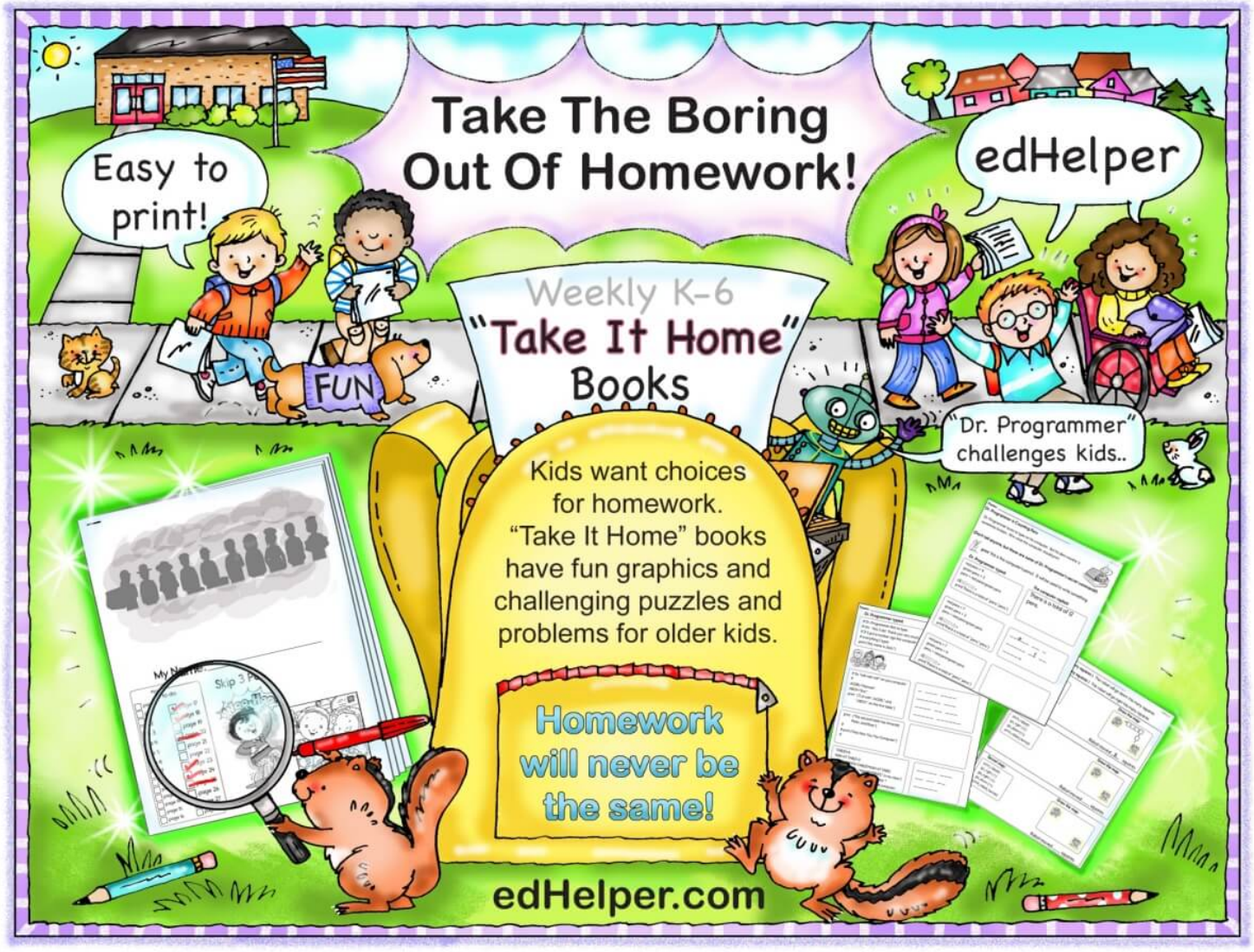
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