

74	+12		-15		+5		-62		-11	
----	-----	--	-----	--	----	--	-----	--	-----	--

Name: _____

Pick 23 to do:

Skip 2 pages.

☐ page 1
☐ page 7
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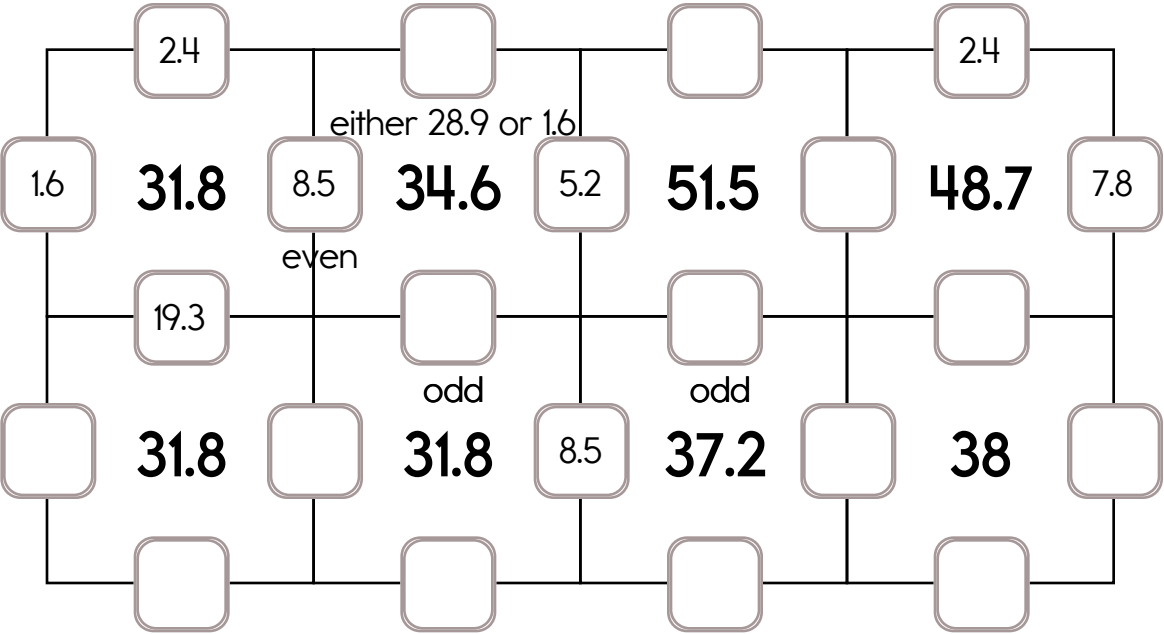
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Challenge Math Book 42



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: 19.3, 18.3, or 28.9.
The other three numbers have to all be DIFFERENT and must be from these: 7.8, 2.4, 5.2, 1.6, 9.6, or 8.5.



95
+23
-14
+73
-5
-4
+16

+1
+3
+9
+50
-2
+18
82
-19

	-8		-61		-7		+25		-6	
--	----	--	-----	--	----	--	-----	--	----	--

Name: _____

Sally's family goes on vacation every year at the end of June.

"It's a family tradition," Sally's dad explains. "We leave after breakfast at about 9. My driving app says it will take 5 hours and 31 minutes."

Unfortunately for Sally's family, sometimes things do not go as planned! It actually started out well; they left 13 minutes before they had planned. But the driving app doesn't seem to anticipate some things. For example, Dad stopped 15 minutes at the gas station, and they also stopped for lunch. If lunch was 5 minutes longer, it would have been an hour just for lunch! Other than that, things went as planned. So what time did they arrive?

Show your work.

Name: _____

Lizzy invented a new card game.

"Want to play the Dizzy Lizzy game?" she asked Hannah.

"Sure! How do we play?" asked Hannah.

"I made these cards. Each card has a value at the top. We drop the cards, and the card that has the most points wins," explained Lizzy.

Lizzy dropped a Running Ron card. It had a cool picture of Ron and 2 stars pictured at the top.

Hannah dropped Laughing Larry with 4 diamonds, and she looked confused.

"Oh, sorry. I meant to tell you, 3 stars = 4 diamonds, 6 diamonds = 1 heart, and 1 heart = 4.5 stars," said Lizzy.

Who won?

Hannah dropped Wild Walter with 7 hearts.

Lizzy dropped Boisterous Barry with 2 diamonds.

Who won?

Name: _____

The librarian has 475 children's books to put on the shelves. She wants to put them on shelves with no books left over. Can she put 8 books on each shelf and have none left over?

The library purchased 80 new books at a total cost of \$1,449.81. They had \$8,038 in their budget to buy books. How much money is left to buy more books?

Mr. Harris has ants and chickens on his farm. The ants are his favorite! One day he was bored and counted all the legs. Between his insects and chickens he had a total of 44 legs. That's a lot of legs! How many ants does he have?

Which digit is in the hundred thousands place in the number 549,713,862?

Write the number that this digit represents.

Name: _____

Fill in each box of the edHelperKu puzzle, using the numbers from 1 to 5.

Every row must contain the numbers 1, 2, 3, 4, and 5.

Every column must contain the numbers 1, 2, 3, 4, and 5.

In a cage with a plus sign, the given number will be the sum of all the digits in the cage.

In a cage with a subtraction sign, the given number will be the difference. The largest number will always be the box with the clue.

1-	2	1-	5+	
2	9+		2-	5
		2	2-	1
10+	4	7+		7+
	5	1		

Fill in the blanks. These equations are from the puzzle above.

$1 + \underline{\quad} = 5$

$\underline{\quad} + 5 + \underline{\quad} = 10$

$\underline{\quad} - 4 = 1$

$\underline{\quad} - 2 = 1$

$5 - \underline{\quad} = 2$

$\underline{\quad} + 2 = 7$

$\underline{\quad} + \underline{\quad} + 3 = 9$

$\underline{\quad} + \underline{\quad} + 1 = 7$

Name: _____

**FUN
BREAK!**

Play a game online!

edHelper.com/math-games.htm**I PLAYED
ONE
GAME**☐(Check the
box after
you play.)**MY SCORE**

Reduce $\frac{81}{126}$ to its lowest
terms.

$$19 + \frac{5}{9} - \frac{1}{3} =$$

$$9 - \frac{4}{9} + \frac{3}{7} =$$

$$32 + n = 47$$

99 divided by 9 equals

Yummy Donuts gave two
dozen chocolate donuts
and four dozen jelly donuts
to the school. How many
donuts did they give?

Name: _____

Cross off the number that does NOT belong.

 (625) , (125) , (25) , (7) , (5) , (1) , $\frac{1}{5}$, $\frac{1}{25}$, $\frac{1}{125}$, $\frac{1}{625}$

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong. Hint: Look at movement of digits!

649441, 944164, 416494, 649441, 944164, 416494, 649441, 944164,

416494, 649441, 649441, 944164, 416494, 649441, 944164

Why does _____ not belong in the pattern?

Name: _____



How many times
do you need to spin?

I needed to spin _____
time(s) to finish the page.

Spin fidget spinner. Quick!

I needed to spin _____ time(s) to finish.

$$2 + (72 \div 6 \times 9) = \underline{\hspace{2cm}}$$

$$12 \times 10 \times 2 = \underline{\hspace{2cm}}$$

$$6 + 8 - 9 = \underline{\hspace{2cm}}$$

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

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

$$12 \times 1 + 5 = \underline{\hspace{2cm}}$$

$$(6 + 3) \times 4 + 9 = \underline{\hspace{2cm}}$$

$$(6 \times 1) - 3 = \underline{\hspace{2cm}}$$

$$2 + 8 - 4 + 7 = \underline{\hspace{2cm}}$$

$$9 - 9 + 4 = \underline{\hspace{2cm}}$$

$$7 \times (9 - 8) = \underline{\hspace{2cm}}$$

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

$$6 \times 8 + 4 = \underline{\hspace{2cm}}$$

$$6 - (2 + 3) = \underline{\hspace{2cm}}$$

$$4 \times 9 - 7 + 3 = \underline{\hspace{2cm}}$$

$$10 + 7 + 11 = \underline{\hspace{2cm}}$$

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

$$9 + 9 - 6 = \underline{\hspace{2cm}}$$

$$6 \times 4 + 7 = \underline{\hspace{2cm}}$$

$$9 + 9 + 2 = \underline{\hspace{2cm}}$$

$$3 \times 8 - 1 \times 7 = \underline{\hspace{2cm}}$$

$$8 \times (8 + 1) = \underline{\hspace{2cm}}$$

$$2 + 81 \div 9 = \underline{\hspace{2cm}}$$

$$12 - 3 + 12 = \underline{\hspace{2cm}}$$

$$(8 + 6) + 5 = \underline{\hspace{2cm}}$$

$$2 + 7 \times 11 = \underline{\hspace{2cm}}$$

$$9 \times 4 + 7 = \underline{\hspace{2cm}}$$

Name: _____



How many times
do you need to spin?

I needed to spin _____
time(s) to finish the page.

Spin fidget spinner. Quick!

I needed to spin _____ time(s) to finish.

$$7 \times 8 + 6 = \underline{\hspace{2cm}}$$

$$(6 + 6) \times 4 = \underline{\hspace{2cm}}$$

$$(4 + 20) \div 4 - 4 = \underline{\hspace{2cm}}$$

$$(4 - 1) + 8 = \underline{\hspace{2cm}}$$

$$4 \times 4 + 1 - 8 = \underline{\hspace{2cm}}$$

$$7 + 1 - 2 = \underline{\hspace{2cm}}$$

$$(3 \times 7) \times 7 = \underline{\hspace{2cm}}$$

$$12 + 3 + 7 = \underline{\hspace{2cm}}$$

$$8 \times 7 + 8 = \underline{\hspace{2cm}}$$

$$9 - 4 + 2 = \underline{\hspace{2cm}}$$

$$6 \times 9 \times 9 = \underline{\hspace{2cm}}$$

$$7 \times 4 - 12 = \underline{\hspace{2cm}}$$

$$5 - 2 + 1 + 2 = \underline{\hspace{2cm}}$$

$$5 + 2 \times 3 = \underline{\hspace{2cm}}$$

$$9 + 70 \div 7 - 1 = \underline{\hspace{2cm}}$$

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

$$6 + 5 \times 1 \times 4 = \underline{\hspace{2cm}}$$

$$1 + 9 \times 3 = \underline{\hspace{2cm}}$$

$$6 - 2 - 4 = \underline{\hspace{2cm}}$$

$$7 + (7 + 4) = \underline{\hspace{2cm}}$$

$$8 \times 7 \times 5 = \underline{\hspace{2cm}}$$

$$5 + 11 + 5 = \underline{\hspace{2cm}}$$

$$2 \times (1 + 2) \times 8 = \underline{\hspace{2cm}}$$

$$11 - 9 + 7 = \underline{\hspace{2cm}}$$

$$4 + 132 \div 11 = \underline{\hspace{2cm}}$$

$$(9 - 5) \times 6 = \underline{\hspace{2cm}}$$

$$(5 \times 6 - 9) + 2 = \underline{\hspace{2cm}}$$

Name: _____

**FUN
BREAK!**

Play a game online!

edHelper.com/math-games.htm**I PLAYED
ONE
GAME**☐(Check the
box after
you play.)**MY SCORE**



What is 50% of 1,786?

The diameter of a circle is
1,348 cm. What is the
radius of this circle?Know how many inches in
a foot? Okay, smarty pants,
how many inches in 3 feet?How much time is it from
8:00 a.m. to 10:55 a.m.? $(5 + 11) - 8$ How many meters are
there in 75 kilometers?

Name: _____

Jenna has a new job working at Pizzeria Magpie. She loves it, but she can only work four hours on Monday, four hours on Tuesday, and seven hours on Saturday. The pizzeria will give her a check every two weeks. She will be paid \$13.60 per hour. How much will her first paycheck be?

Write as a decimal.

$$18 \frac{182}{1000}$$

Write as a decimal.

$$\frac{1}{100}$$

Write as a decimal.
Ten and seventy-three
hundredths

Erin has 60 books. She
organized them equally
into 5 boxes. How many
books in each box?

$$22 + \underline{\quad} + 22 = 62$$

Name the shape with
seven sides and seven
angles.

What time is 13 hours after
1:00 p.m.

$$1 \text{ km} = 1,000 \text{ m}$$

$$15 \text{ km} = \underline{\hspace{2cm}} \text{ m}$$



☐

I did page 11

☐I decided to skip this page
edHelper

Name: _____

What is the missing fraction?

$$\frac{5}{6} + ? = 1\frac{4}{9}$$

 $\frac{1}{6}$, (1), (6), (36),
(216), _____, (7,776),
(46,656)

$$\underline{\hspace{2cm}} \div 3 = 6$$

$$56 \div 8 =$$

$$10 + 11 + 8$$

$$63 \div 7 \times 11$$

$$2 \times 9 - 10 - 8$$

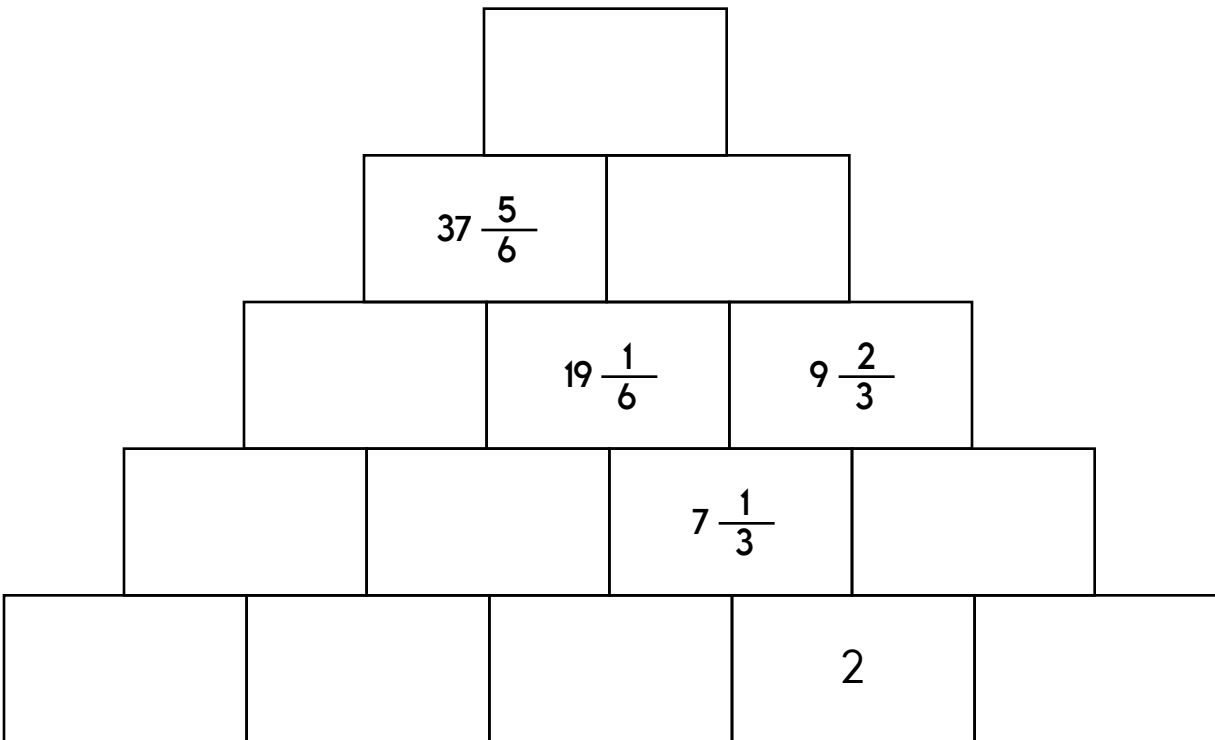
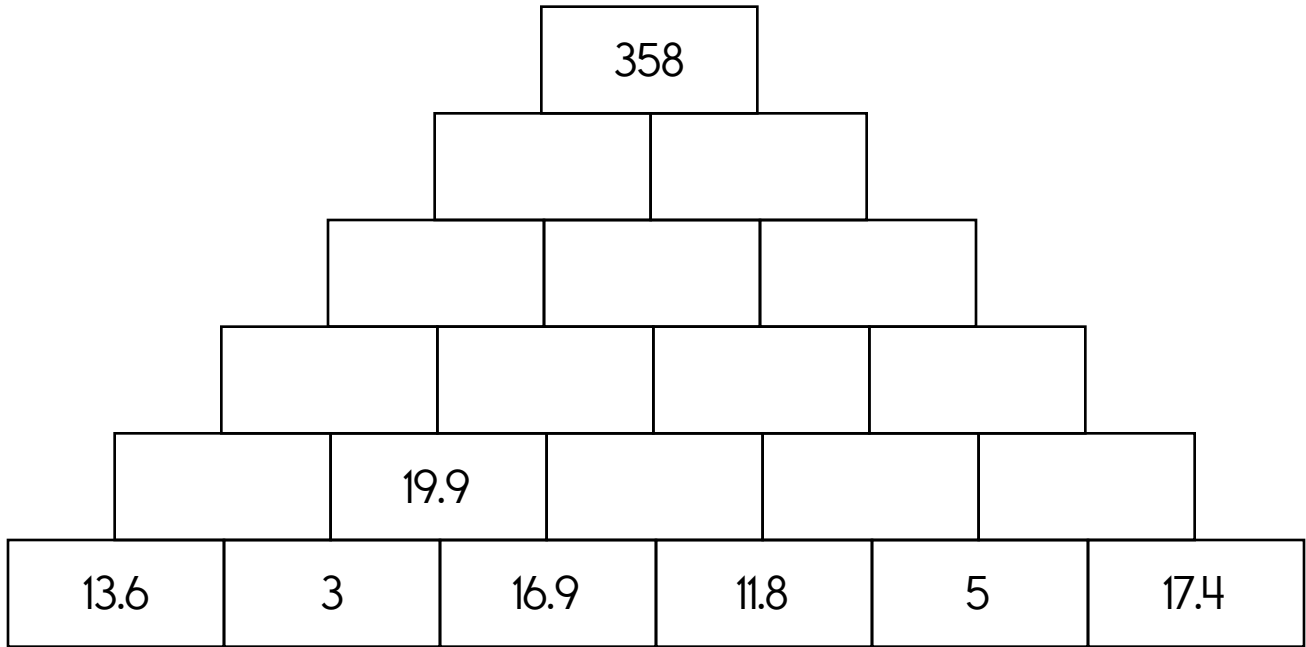
$$14 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$$

Write whether this fragment is missing a
subject or a verb.
ran all the way home



Name: _____

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



$\begin{array}{r} 345 \\ + 366 \\ \hline \end{array}$	<p>How many feet are in 9 yards?</p> <p>_____ feet</p>
---	--



Name: _____

Match each pattern to its rule.

27.4, 20.5, 13.6, 6.7

23.33, 17.32, 11.31, 5.3

- 6.9

- 6.4

- 6.3

22, 15.6, 9.2, 2.8

27.2, 20.9, 14.6, 8.3

+ 6.07

+ 6.03

- 6.01

4.9, 11.5, 18.1, 24.7

+ 6.6

1.1, 7.17, 13.24, 19.31

7.3, 13.33, 19.36, 25.39

Write the reciprocal.

$$\frac{6}{11}$$

Write the reciprocal.

17

Write the reciprocal.

$$\frac{3}{2}$$

Double the number 10
three times.

Round 172 to the nearest
ten.

Round 1469 to the nearest
hundred.

Jack earns \$20 an hour.
He worked 4 hours. How
much did he make?

Is 39 a composite or a
prime number?

How many total legs are on
4 dogs and 2 ants?

word root **re** can mean **again** **return, recall**

☐

I did page 14

☐I decided to skip this page
edHelper**Name:** _____

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

Megan has \$50.67. She has 6 bills and 6 coins. How?

\$5

5¢

Sara has \$72.66. She has 6 bills and 7 coins. How?**Hunter has \$36.17. He has 7 bills and 18 coins. How?**

Circle the digit in the tenths place.

69.6717

Add the correct end punctuation for
this sentence.

I just want winter to be over

☐

I did page 15

☐I decided to skip this page
edHelper

Name: _____

Simplify each fraction. Draw lines between equal fractions.

$\frac{7}{70}$



$\frac{1}{2}$

$\frac{28}{44}$



$\frac{6}{12}$

$\frac{8}{14}$



$\frac{1}{10}$

$\frac{28}{49}$



$\frac{49}{77}$

Sketch 2 lines \overleftrightarrow{AB} and \overleftrightarrow{ST} that are intersecting.Sketch 2 lines \overleftrightarrow{FG} and \overleftrightarrow{ST} that are perpendicular.51, 55, _____, 63, 67,
71, 75

A book has 6 pages. Each page has 12 dimes. How many dimes in the book?

What is 18 less than 2,099?

$9 \times \underline{\quad} = 99 = \underline{\quad} \times 33$

$7 \times \underline{\quad} = 84 = \underline{\quad} \times 28$

$8 \times \underline{\quad} = 48 = \underline{\quad} \times 3$

$7 \times \underline{\quad} = 70 = \underline{\quad} \times 14$

$7 \times \underline{\quad} = 84 = \underline{\quad} \times 2$

Name the shape with eight sides and eight angles.

$\underline{\quad} \div 9 = 5$

Name: _____

Fill in each box of the edHelperKu puzzle, using the numbers from 1 to 5.

Every row must contain the numbers 1, 2, 3, 4, and 5.

Every column must contain the numbers 1, 2, 3, 4, and 5.

In a cage with a subtraction sign, the given number will be the difference. The largest number will always be the box with the clue.

3-		1-	4	2-	
1-				2-	1-
2-	4-				
	2-		4-	1-	
1-	3	5	1	2	

Fill in the blanks. These equations are from the puzzle above.

$$5 - \underline{\quad} = 4$$

$$4 - \underline{\quad} = 1$$

$$5 - \underline{\quad} = 1$$

$$4 - \underline{\quad} = 2$$

$$\underline{\quad} - 1 = 2$$

$$4 - \underline{\quad} = 2$$

$$3 - \underline{\quad} = 2$$

$$\underline{\quad} - 1 = 4$$

Name: _____

Can you draw lines to cover every number or shape in the picture?

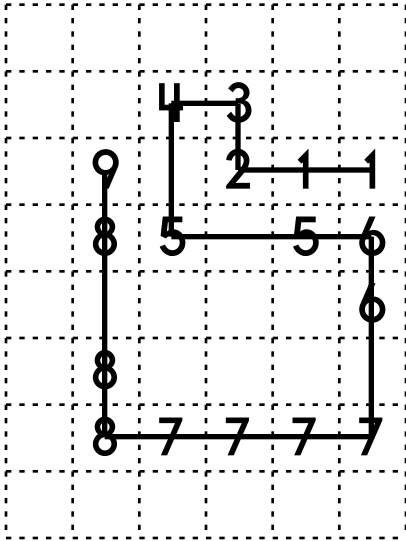
You can only move left, right, up, or down. And definitely no starting or stopping in a blank spot!

The first one is already done for you. Good luck.

Draw exactly 8 lines.

Start on 1.

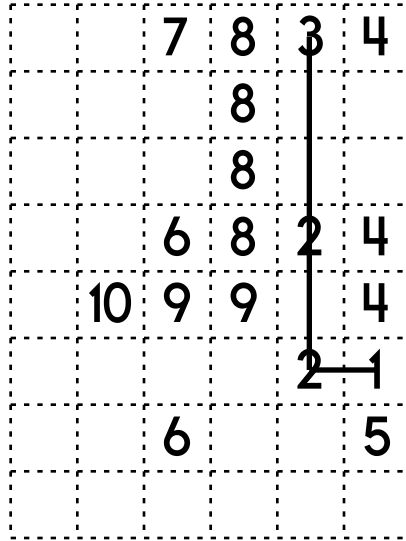
Do not pick up your pencil.



Draw exactly 9 lines.

Start on 1.

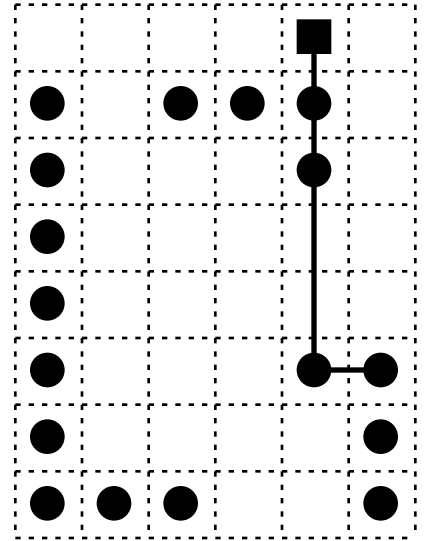
Do not pick up your pencil.



Draw exactly 6 lines.

Start on the square.

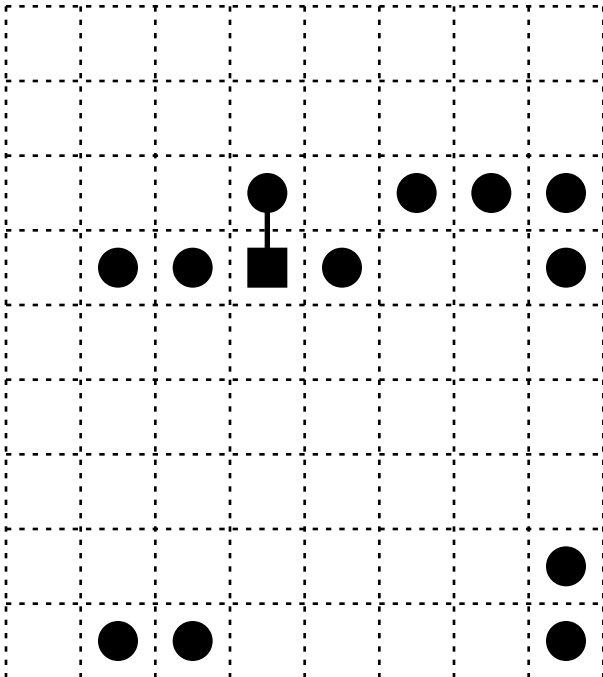
Do not pick up your pencil.



Draw exactly 6 lines.

Start on the square.

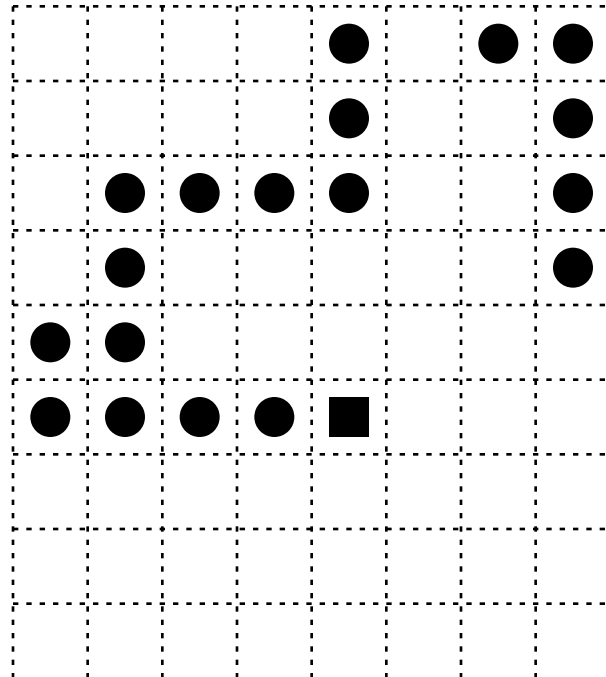
Do not pick up your pencil.



Draw exactly 8 lines.

Start on the square.

Do not pick up your pencil.



Name: _____

The first English dictionary, prepared in 1604 by Robert Cawdrey, defined 3,000 English words. In 1720, Nathan Bailey published the first English dictionary that tried to include most English words instead of just the hard ones. His dictionary contained about 60,000 words. How many more words did Bailey's dictionary contain than Cawdrey's dictionary?

Megan's pet is a king snake named Mick. Mick is still very young, so he is only eighteen inches long. When he is grown, he will be forty-eight inches long. How much longer will he be when he is grown than he is now? Oh, by the way, Mick refused to be dressed up as anything!

90, 100, 110, 120,
_____, 140

A toy car can go 3 mph.
How long would it take to
go 10 miles?

Write $\frac{2}{4}$ in lowest terms.

There are 151 people
signed up for a
pie-making class. They
will be divided into
groups. Each group will
have 14 people. About
how many groups will
be formed?

Mrs. Miller recorded
the number of voters
each hour for 10 hours:
12, 24, 19, 17, 25, 22, 16,
30, 29, and 15. What
was the mean number
of voters per hour?
Round your answer to
the nearest number of
voters.

Anna made a
cheesecake for her
family. When she
finished it, she put
chocolate chips on top!
She put 12 chips on the
cake for each person
in her family. There are
8 people in Anna's
family. How many
chocolate chips did
she put on top of the
cake?

Name: _____

Metro Messenger Service delivered one million, thirty thousand, nine hundred sixty-five messages last year. Write that number in standard form.

Megan mailed invitations to her birthday party on March 24. Her birthday is exactly three weeks later. On what date is her birthday?

Mrs. White is making a honey cake. She will use $\frac{5}{8}$ of a cup of honey in the cake and $\frac{3}{8}$ of a cup of honey in the frosting. How much honey will she use in all?

It was 6 degrees above zero in the morning. By afternoon the temperature rose 28 degrees. How warm was it?

What 4 coins add up to 40 cents?

$$6 \div \frac{1}{3}$$

The sign on the rusty brown truck said, "For Sale. \$270." Hunter counted his money. He only had \$202.72. How much more money does he need to buy the truck?

Peter was bored. He decided to help his father rake leaves. They raked 10 bags of leaves in 2 hours. At that rate, how many bags of leaves could they rake in 5 hours?

Alex and his father made a model of Alexander Graham Bell's telephone. The materials cost \$24.30. Alex's father gave the clerk \$25. How much change did he get?

The perimeter of a rectangle is 22 cm. The longer side is 9 cm. How long is the shorter side?

A, F, _____, P, U, Z

$$43 + n = 57$$

Name: _____

Draw a line from START to END.

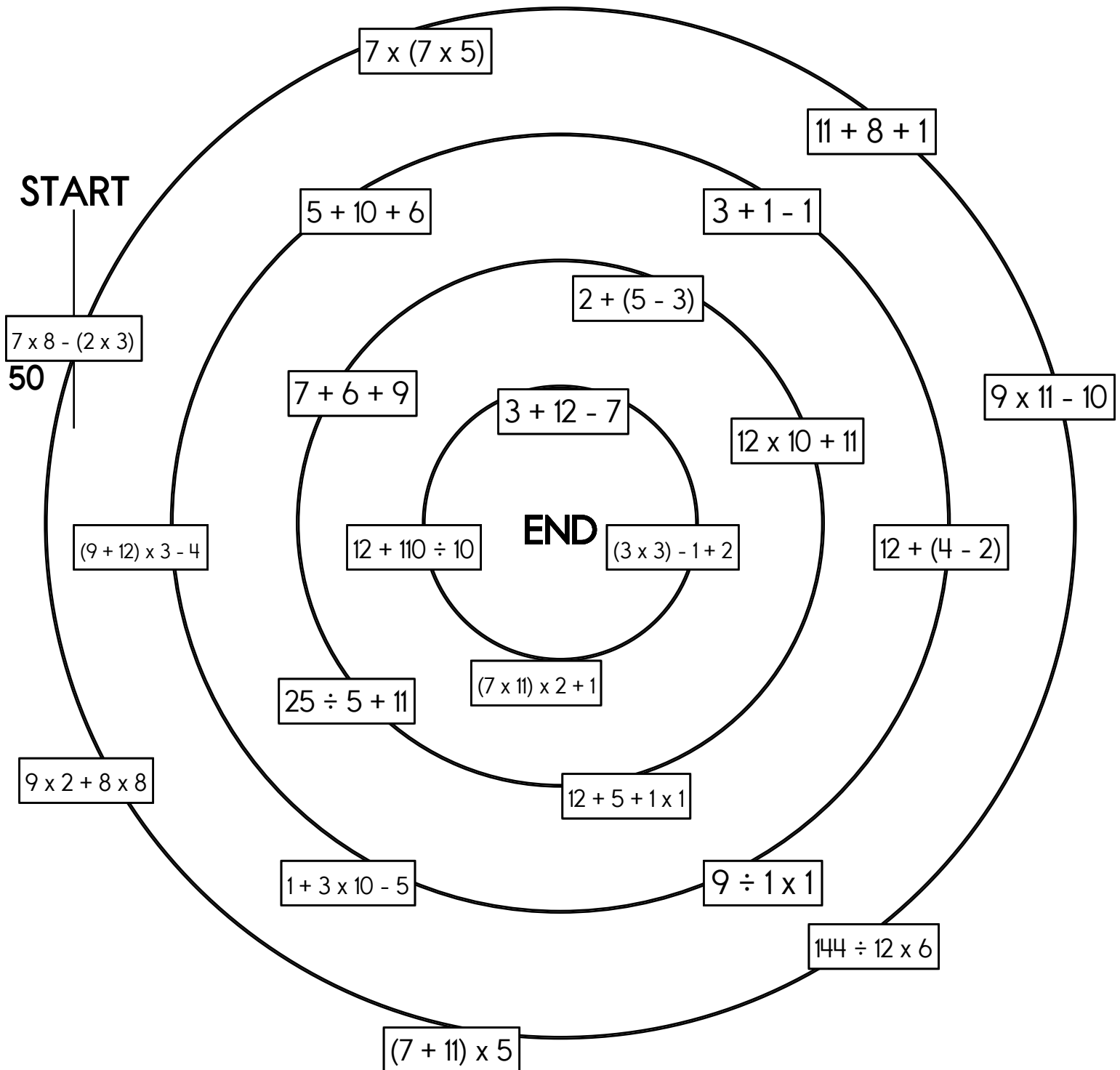
155

~~50~~

59

16

Cross out the number you use above and then write it below.



Name: _____

"How many buildings are yours?" asked Sally as they were playing the Build As Fast As You Can game, which is the best new game on their HBox.

"Not telling!" replied Jen.

Sally would have to use the clue on the screen. If she can guess correctly, she will get 50 more points. The clue said, "Jen just added one building. Now, if you double the number of Jen's buildings (after she added one), she will be within 3 of the number of buildings that Sally has. Start building, fast!"

Jen now has 7 buildings. How many buildings does Sally have?





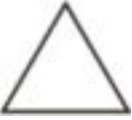




Show your work.

Name: _____

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

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

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

☐

I did page 23

☐

I decided to skip this page

Name: _____

<p>Ms. Johnson bought a box of plastic wrap to wrap the popcorn balls she had made. The box contained $2\frac{1}{3}$ yards of wrap. She used $\frac{1}{2}$ of it to wrap the popcorn balls. How much wrap does she have left?</p>	<p>At 8:00 a.m. Mr. Lee started packing quarts of milk in crates. By 9:00 a.m., he had packed 82 quarts. He took a break from 9:00 a.m. to 9:30 a.m. From 9:30 a.m. to 10:30 a.m., he packed 82 quarts. How many quarts of milk did he pack from 8:00 a.m. to 10:30 a.m.?</p>	<p>It was a beautiful spring day. Rose was amazed at all the butterflies. As a matter of fact, she had already counted 145! Of those, 30 were Monarch butterflies. What is the probability that the next butterfly she sees will be a Monarch? Write as a fraction in lowest terms.</p>
<p>Anne was bored. She asked her mother if she could make cookies. Her mother agreed, so Anne got busy. She made 3 dozen oatmeal cookies and 19 chocolate chip cookies. How many cookies did she make in all?</p>	<p>Each of the circus elephants ate 35 pounds of peanuts a day. How many pounds of peanuts would the 10 elephants eat in 6 days?</p>	<p>Emily is making a new dress for the Dance Like a Chicken Day party. She has $6\frac{1}{2}$ yards of fabric. She will use $2\frac{3}{4}$ yards for the skirt and $\frac{3}{4}$ yards for the top. How much fabric will be left over?</p>

Name: _____

one hundred thousand, three hundred =

- A) 30001
- B) 1003
- C) 30010
- D) 100300

 $2400 \div 6 =$

- A) 403
- B) 19099
- C) 680 R5
- D) 400

Which number comes between 4.6 and 4.78?

- A) 4.98
- B) 4.44
- C) 4.66
- D) 4.53

Which fact belongs to the same family as $120 \div 12 = 10$?

- A) $120 - 10 = 12$
- B) $22 \times 4 = 88$
- C) $12 \div 10 = 120$
- D) $12 \times 10 = 120$

 $0.7 - 0.484 =$

- A) 0.696
- B) 1.216
- C) 0.216
- D) 0.256

 $5.1 - 1.8 =$

- A) 3.3
- B) 2.3
- C) 5.1
- D) 3.1

Name: _____

$$\begin{array}{c} \bigcirc \\ \swarrow \quad \searrow \\ 2\frac{1}{2} \quad + \quad 5\frac{1}{2} \end{array}$$

$$\begin{array}{c} 13 \\ \swarrow \quad \searrow \\ 4\frac{2}{3} \quad + \quad \bigcirc \end{array}$$

$$\begin{array}{c} \bigcirc \\ \swarrow \quad \searrow \\ 9\frac{1}{4} \quad + \quad 8\frac{1}{2} \end{array}$$

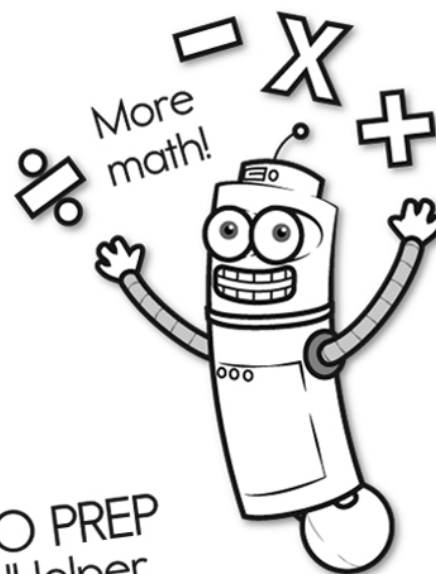
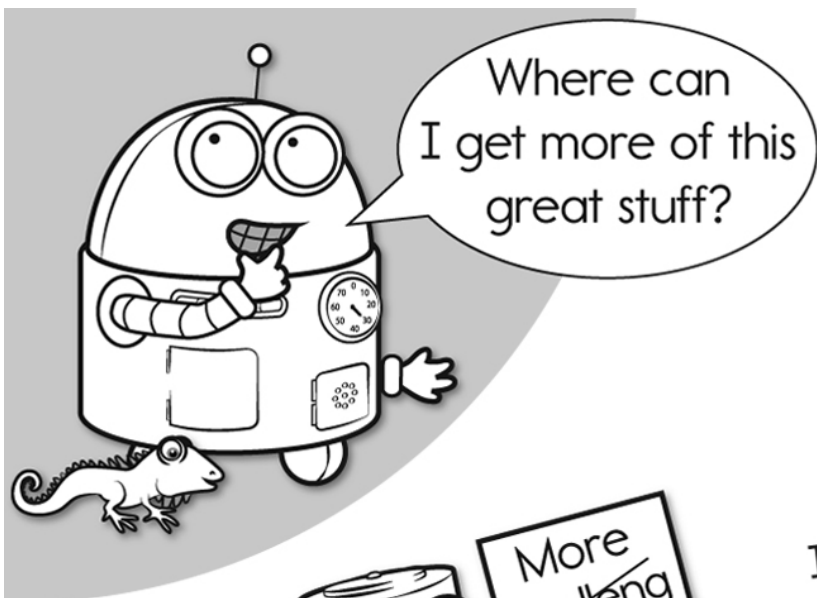
$$\begin{array}{c} 9\frac{2}{5} \\ \swarrow \quad \searrow \\ \bigcirc \quad + \quad 2\frac{4}{5} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \swarrow \quad \searrow \\ 8\frac{1}{2} \quad + \quad 9\frac{2}{5} \end{array}$$

$$\begin{array}{c} 11 \\ \swarrow \quad \searrow \\ \bigcirc \quad + \quad 1\frac{1}{2} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \swarrow \quad \searrow \\ 2\frac{2}{3} \quad + \quad 6\frac{1}{3} \end{array}$$

$$\begin{array}{c} 11\frac{1}{6} \\ \swarrow \quad \searrow \\ 7\frac{2}{3} \quad + \quad \bigcirc \end{array}$$

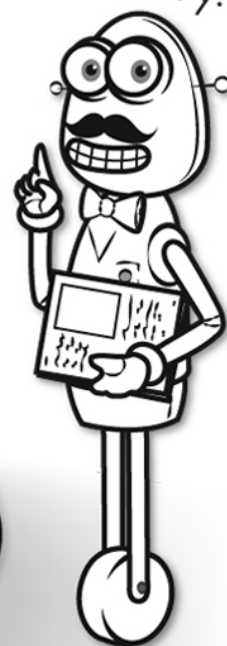


It's NO PREP
at edHelper.

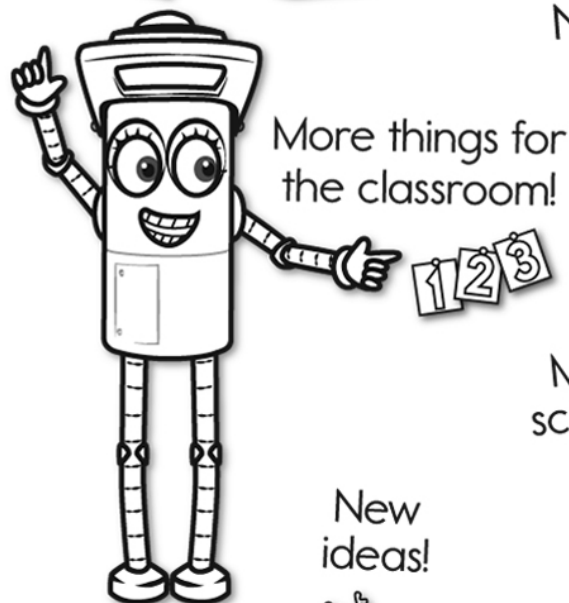
More
history!



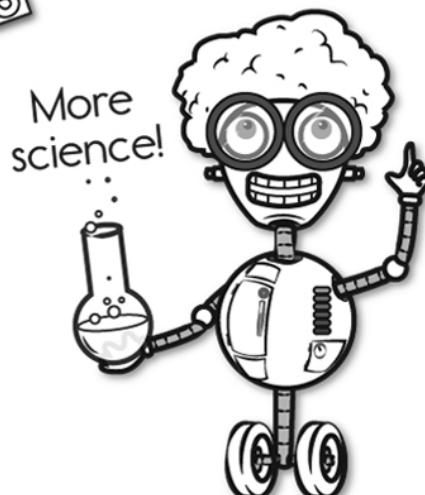
edHelper.com!



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games!

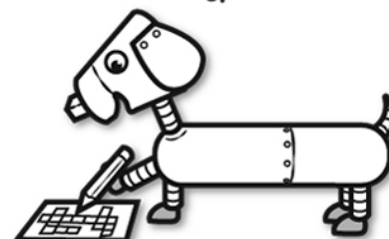


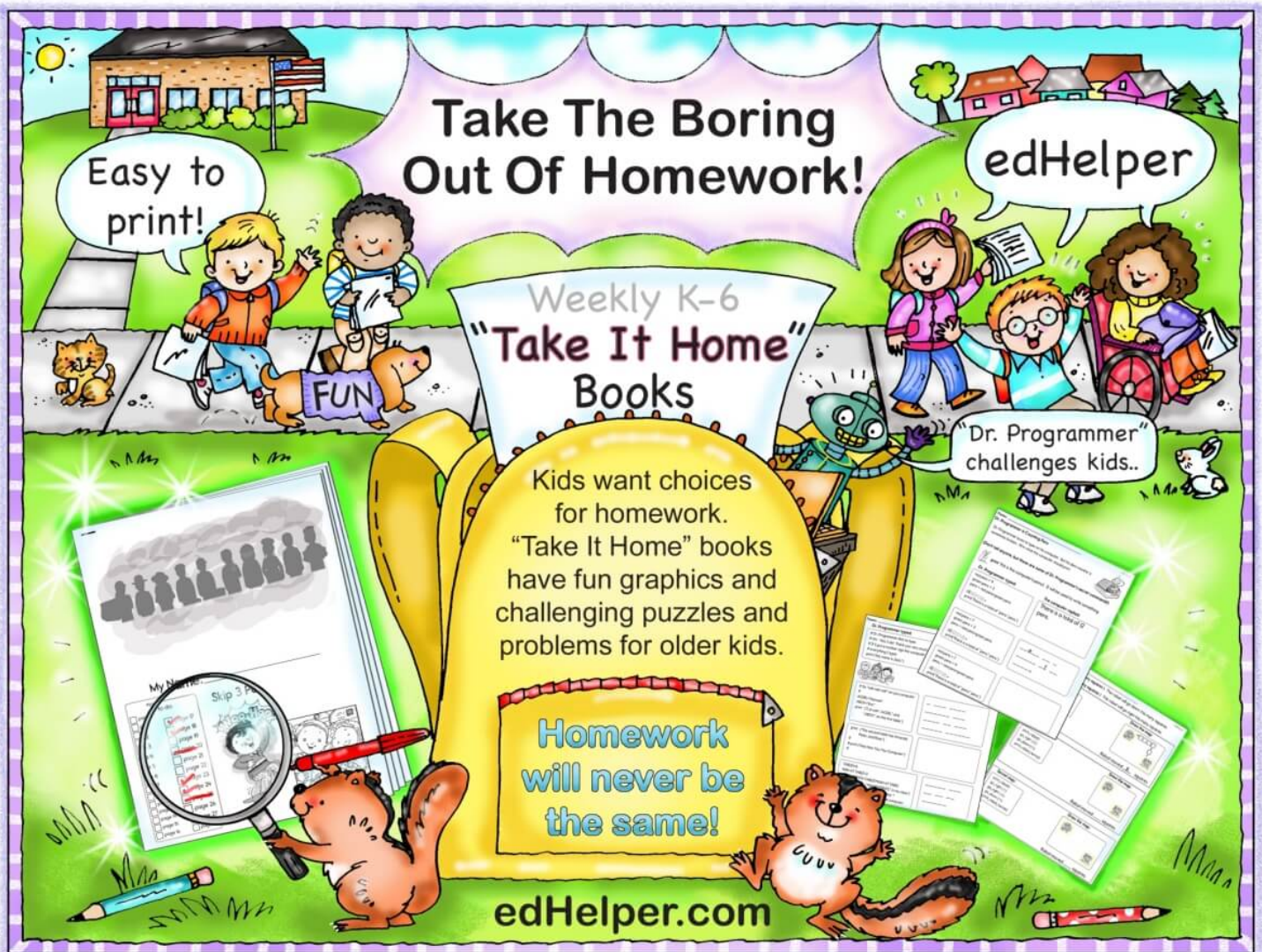
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