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!

A	B	C	D
imagine 4 in your head	imagine 2 in your head	imagine 8 in your head	imagine 2 in your head
add 4	multiply 9	multiply 7	multiply 9
add 7	add 2	double it	add 9
	subtract 6	add 3	subtract 7
	subtract 9	add 2	subtract 6
	multiply 10	subtract 9	
	Add the tens digit to the ones digit.		
Write the tens digit.	Write the sum.	Write the hundreds digit.	Write the even digit in your answer.
____	____	____	____

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** ____

7 after 14 _____	1 before 13 _____	2 after 12 _____
8 after 18 _____	9 before 14 _____	6 after 13 _____
3 after 16 _____	4 before 12 _____	1 after 15 _____

Name: _____

Which digit is in the hundreds place in the number 891,367,542?

Write the number that this digit represents.

Pam rode an exercise upright bike for 21 minutes. Her average speed was 12.5 mph. How far did she ride rounded to the nearest mile?

Name: _____

How many boxes measuring 5.1 cm on each side can be put in a crate that measures 4 m x 3 m x 13 m?

Miss Garcia was making ice cream sodas. She needed $1\frac{1}{2}$ cups of soda for each one. With the amount of soda she had, she could make $10\frac{1}{2}$ ice cream sodas. How many cups of soda did she have?

"Hey, Ted!" called out his friends. But Ted didn't reply. He was texting. They don't call him Texty Ted for nothing! Ted can send 18 texts in 2 minutes and 24 seconds. At precisely 3:26 and 0 seconds, Ted sat outside the school and started to send texts. He sent texts until 3:52 and 0 seconds when his phone ran out of power. How many texts do you think Texty Ted completed and sent?

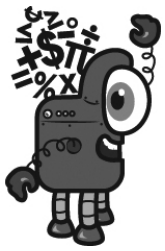
In art class, the teacher asked the class to draw a rectangle.

Mrs. Rodriguez 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 6 to 4. Each side of the shape must have a length that is a whole number of inches."

Anne wants to draw the biggest rectangle on her 14.5-inch by 16.5-inch piece of paper. What size should she draw the rectangle?

Name: _____

Mental Math — #1 —



- ❑ Start with the number 416. **416**
- ❑ Increase that number by 4. _____

  9 9 4 2 0 1 4 5 2 0 (Circle your answer to double check you are correct.)
- ❑ Add the number of cups in 3 quarts. _____

  7 4 3 2 6 2 2 5 5 7
- ❑ Add the digits in your number. The sum of that is your new number. _____

  9 3 5 2 1 9 2 2 9 9
- ❑ Multiply by 4. _____

  8 7 3 9 3 6 9 0 1 4
- ❑ Add the number of dimes in a dollar. _____

  6 3 5 9 2 4 6 1 7 4

Mental Math — #2 —

- ▶ Start with the number 626. _____

  3 0 9 6 2 6 6 9 8 7 (Circle your answer to double check you are correct.)
- ▶ Add three-fourths of a dozen. _____

  7 2 3 0 8 2 6 3 5 6
- ▶ Add 45. _____

  3 6 8 0 9 4 8 4 5 3
- ▶ Divide by 10. _____

  8 4 2 6 8 8 7 5 1 1
- ▶ Increase that number by 2. _____

  5 8 9 3 7 0 2 3 8 8
- ▶ Find five-sevenths. _____

  5 0 2 7 5 0 8 5 9 0

Name: _____

Robert built a reading loft in his room. The floor of the loft was 7.4 feet long and 5.5 feet wide. What was the perimeter of the loft?

A maple tree grows about 12 inches per year. If the maple tree in Alex's yard is 30 inches tall now, how tall will it be in 4 years?

120 ÷ 12 = _____

10 x 7 =

Rewrite these in increasing order of length:

893 dm, 91 m, 310 mm

$$\begin{array}{r} 323 \\ +\ 457 \\ \hline \end{array}$$

Write an equation to represent this:

The product of five and seven is thirty-five.

_____

13 lb = _____ oz

How many millimeters are in 2 centimeters?

_____ millimeters

Circle the digit in the hundredths place.

919.8213

994 - 546 = _____

$$\begin{array}{r} 46 \\ +\ 37 \\ \hline \end{array}$$

8 x 10 = _____

Name: _____

Circle the addition property for 23 + 181 = 181 + 23.

associative property
commutative property

88 ÷ 8 = _____

Which is the better buy? Seven bags of candy for $49 or two bags of candy for $10?

$$\begin{array}{r} 27 \\ -\ 16 \\ \hline \end{array}$$

8 ÷ 4 = _____

Holly makes a basket for every two attempts that she makes. Jenna needs eight attempts to make a basket. Each basket is worth 2 points. If they each make 32 attempts, then what is the score?

1 km = 1,000 m

21 km = _____ m

84 ÷ 7 =

42 ÷ 7 =

$$\begin{array}{r} 682 \\ -\ 292 \\ \hline \end{array}$$

72,716 - 27,314 = _____

Mary rolls a die. What is the chance of her rolling a 6?

_____

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

_____

Write the missing family fact.

103 - 37 = 66
66 + 37 = 103
103 - 66 = 37

_____

Name: _____

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

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

RACCOON • GRACIOUS • REVERT
NATURE • CALENDAR • GATHER
IMBALANCE • TRACE • TWINKLE
REACHABLE

6 x 6 = _____

8 x 8 = _____

2 x 3 = _____

8 x 4 = _____

3 x 8 = _____

Can 996 be evenly divided by 3? Circle:
996 is evenly divisible by 3
996 is NOT evenly divisible by 3

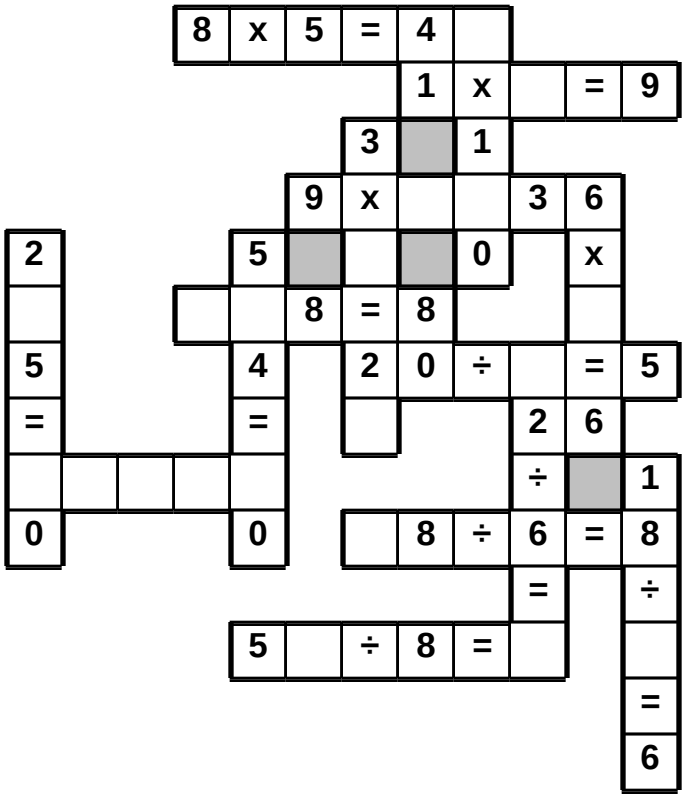
12 x 11 =

50 ÷ 5 = _____

Name: _____

0 • 9 • 4 • = • 9 • x • 1 • x • 1 • 4 • 7 • 1 • x • 2 • = • 2 • 4
6 • 7 • 3

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 thirty-three thousand, six hundred seventy-nine

_____

10 x 9 = _____

8 x 12 =

Make a decimal number. Start with a zero and a decimal point. Then use these numbers: 7, 7, and 3. Make three different decimal numbers. Put your three decimal numbers in order from largest to smallest.

8 x 10 = _____

word root **il** can mean **not** **illiterate, illegible**

Name: _____

Danielle, Jordan, Jessica, and Victoria competed in the women's singles figure skating competition.

Each person has been assigned a technical and presentation ordinal mark. A mark of 1.0 indicated that the person was placed in first place. To determine the winner, the two marks from each judge are added together and assigned an ordinal. In case of a tie, the technical mark has more weight. If there is still a tie, we will allow both people to share the same rank. (Please note that these calculations are simplified from the actual Olympics.)

For the technical ordinal score, the judges give the best performance an ordinal of one. The next best performance receives an ordinal of two, and so on. The presentation ordinal score is assigned in the same way. So for four people, a person could have a presentation ordinal score ranging from 1 to 4.

(When ordinals are compared, a higher ordinal score actually means a lower number. For example an ordinal of 1 is better, and considered higher than an ordinal of 3.)
Figure out the scores for each skater and their final rankings.

1. Victoria's technical ordinal score was higher than Jessica's and higher than Jordan's.
2. Victoria's technical ordinal is lower than her presentation ordinal.
3. Jordan's technical ordinal is equal to her presentation ordinal.
4. Danielle had the best technical ordinal score.
5. One skater received a 3 presentation ordinal and a 3 technical ordinal.
6. Jessica's technical ordinal score was higher than Jordan's technical ordinal score.
7. Victoria did not have a presentation ordinal mark of 4.
8. One skater received a 1 technical ordinal and a 2 presentation ordinal.

Danielle received a score of _____. Danielle came in _____ place.

Jordan received a score of _____. Jordan came in _____ place.

Jessica received a score of _____. Jessica came in _____ place.

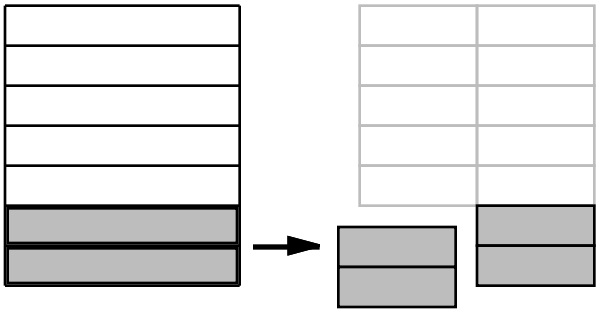
Victoria received a score of _____. Victoria came in _____ place.

Name: _____

$\frac{1}{2}$ of $\frac{2}{7}$ = $\frac{\square}{\square}$ x $\frac{\square}{\square}$

= $\frac{\square}{\square}$

Draw it.



$\frac{1}{2}$ of $\frac{3}{5}$ = $\frac{\square}{\square}$ x $\frac{\square}{\square}$

= $\frac{\square}{\square}$

Draw it.

$\frac{1}{6}$ of $\frac{6}{7}$ = $\frac{\square}{\square}$ x $\frac{\square}{\square}$

= $\frac{\square}{\square}$

Draw it.

$\frac{2}{4}$ of $\frac{4}{6}$ = $\frac{\square}{\square}$ x $\frac{\square}{\square}$

= $\frac{\square}{\square}$

Draw it.

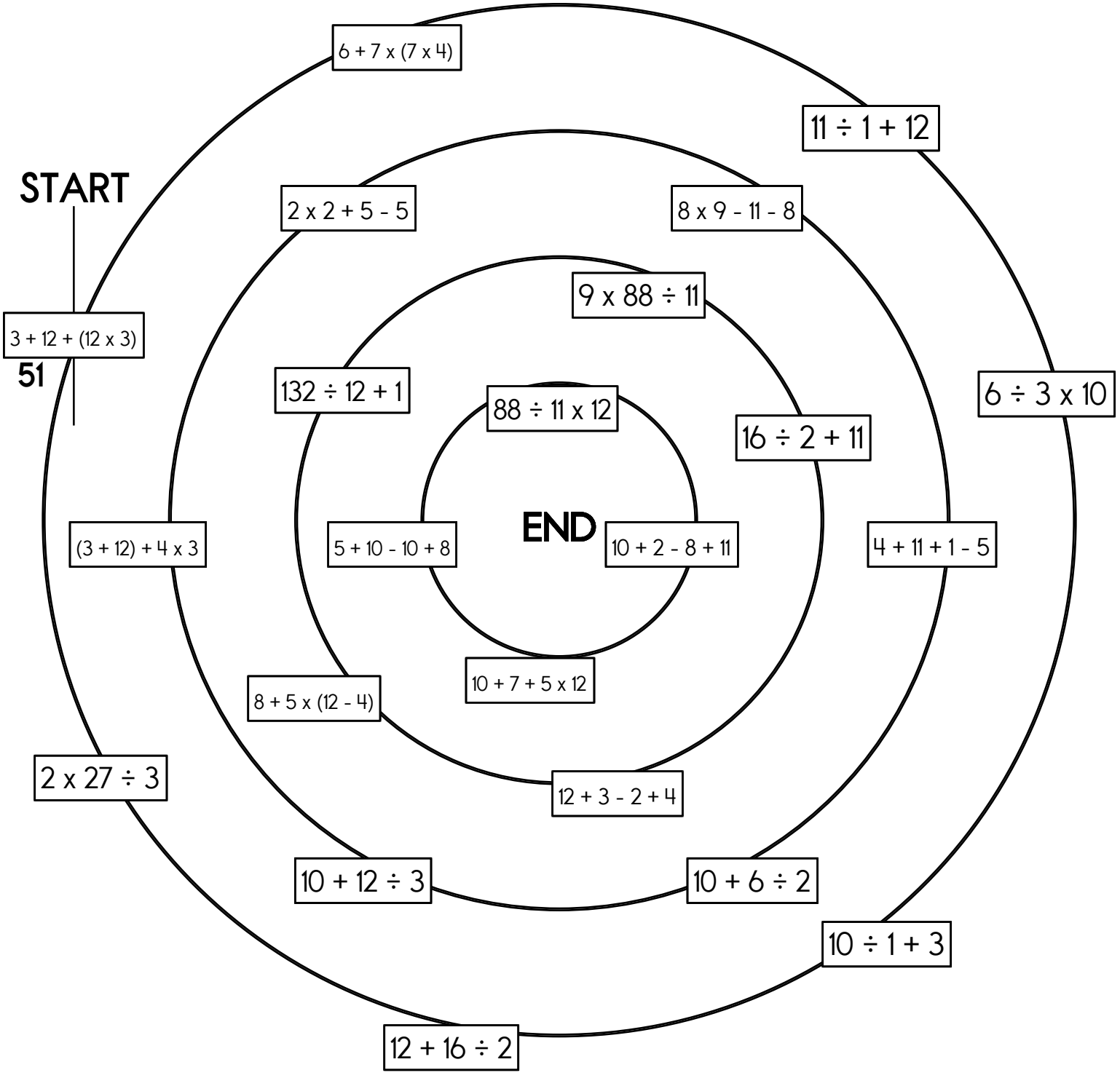
Name: _____

Draw a line from START to END.

13 96 72

~~51~~

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



Name: _____

Change 0.06 to a percent.

Find 75% of 172.

Change $\frac{4}{5}$ to a decimal.

168 is what percent of 224?

Change to percents.

$\frac{30}{100}$ =

$\frac{41}{100}$ =

$\frac{24}{100}$ =

$\frac{51}{100}$ =

$\frac{9}{10}$ =

$\frac{80}{100}$ =

Change to decimals.

6% = _____

23% = _____

20% = _____

49% = _____

Change to percents.

$\frac{67}{100}$ =

$\frac{54}{100}$ =

$\frac{2}{10}$ =

$\frac{27}{100}$ =

$\frac{90}{100}$ =

$\frac{10}{100}$ =

Change 0.9 to a percent.

Find 60% of 320.

Name: _____

Words can be to the RIGHT, DOWN, LEFT, or UP. Every letter is used ONCE.

Hint: When to the LEFT or UP the word is backwards.

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

Write the words found.

CONFIRMATION _____ COURTEOUS _____

PENITENT _____ PROTECT _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____

Circle all of the words.

typicalalternateoriginateweavedlessonsbiologist

formalweavedtypicalspryoriginatealternatelessons

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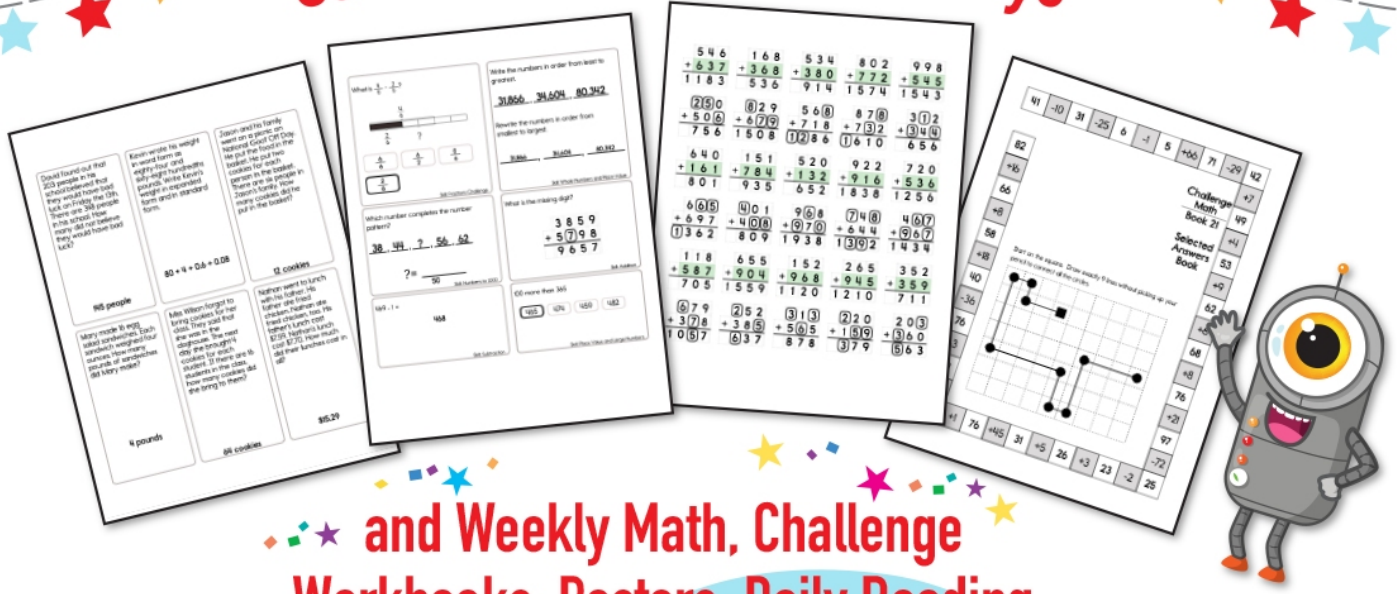

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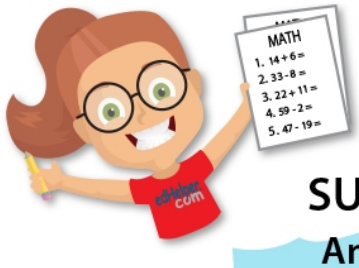

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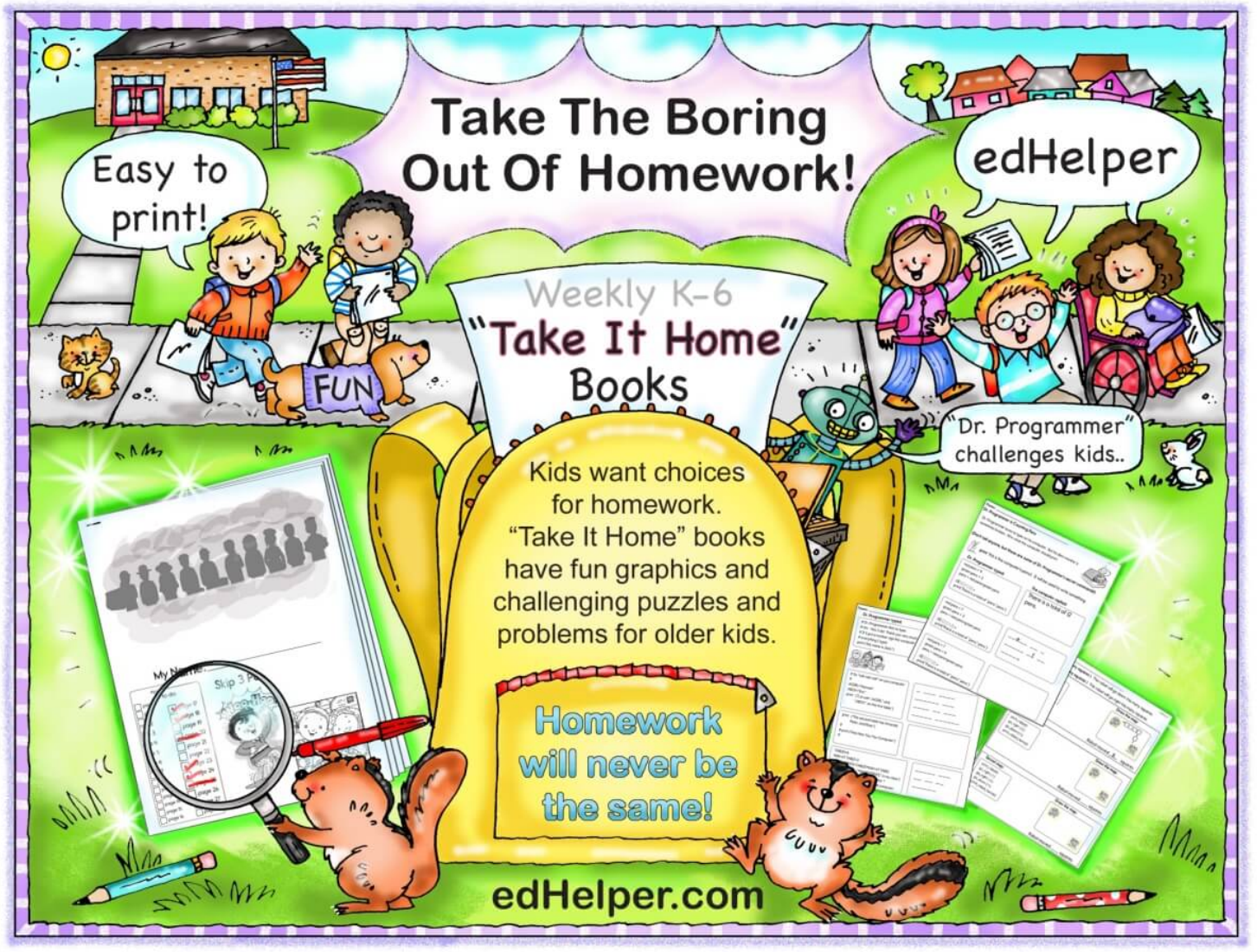
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