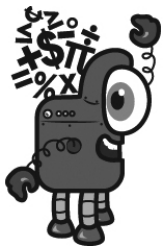
Name: _____

Mental Math — #1 —



Start with the number of sides on a octagon. 8

Add the number of cups in 3 quarts. _____

2 0 6 2 3 6 9 3 4 2 (Circle your answer to double check you are correct.)

Subtract 12. _____

6 9 4 7 2 8 7 6 5 3

Add the number of ounces in 2 pounds. _____

6 3 1 9 9 5 2 4 0 5

Increase that number by 14. _____

4 0 1 3 8 4 5 4 3 7

Divide by 9. _____

5 4 4 3 6 8 3 9 6 3

Multiply by 5. _____

7 5 1 3 0 1 9 6 5 9

Add one-third of a dozen. _____

2 1 3 4 9 1 5 3 7 9

Increase that number by 22. _____

7 5 6 8 3 5 8 9 5 6

Multiply the tens digit by the ones digit. The product is your new number. _____

7 3 0 7 3 6 1 5 8 4

Add the number of inches in 1 foot. _____

5 7 4 2 8 4 7 3 1 7

Name: _____

963 + 25 =

Find the difference between 4402 and 416.

$$\begin{array}{r} 778 \\ -\ 486 \\ \hline \end{array}$$

$$\begin{array}{r} 4{,}656 \\ -\ 1{,}681 \\ \hline \end{array}$$

$$\begin{array}{r} 578{,}252 \\ -\ 88{,}281 \\ \hline \end{array}$$

$$\begin{array}{r} 623 \\ -\ 72 \\ \hline \end{array}$$

$38\overline{)532}$

Divide and write remainder.

$2\overline{)170}$

Divide and write remainder.

$$\begin{array}{r} 9 \\ 644 \\ 266 \\ +\ 87 \\ \hline \end{array}$$

$$\begin{array}{r} 824 \\ +\ 83 \\ \hline \end{array}$$

$$\begin{array}{r} 808{,}919 \\ -\ 183{,}316 \\ \hline \end{array}$$

$$\begin{array}{r} 29{,}013 \\ -\ 9{,}772 \\ \hline \end{array}$$

Name: _____

Emily Dickinson, one of the most famous poets of the 1800's, wrote 1,700 poems in her lifetime. Her subjects were love, death, nature, and immortality. Only eleven of her poems were published in her lifetime, but after an accurate, complete edition of her poems was printed in 1944, her popularity grew. What percent of Ms. Dickinson's poems were printed in her lifetime?

The Littleville basketball team scored 56 points last night. They defeated their archrival Megalopolis. Littleville made 3 three-point shots, 21 field goals, and some free throws. How many free throws did they make?

Figure out the greatest common factor of the following numbers:

24 39 90

Consistent Claire loves practicing her free throws. She is so consistent. Every game she gets the same percentage of free throws in the hoop. In the last game she played, Claire made 18 of 24 attempted free throws. In today's game, she attempted 16 free throws. If her percentage for this game is the same as her last game, how many of them went in?

Name: _____

"I can quickly divide a three-digit number by a two-digit number," Emily tells Robert.

"Yeah, sure," replies Robert. "Then what is 486 divided by 27?"

Emily has a trick. She will distract Robert while you figure it out. Show your work!

10 is 1,000 times greater than 0.01

9,000 is _____ times _____ than 0.9
26 is _____ times _____ than 0.00026
0.0038 is _____ times _____ than 3,800
870 is _____ times _____ than 0.087

Name: _____

For 450,254,884, write the digit that is in the ten thousands place.

_____

1 kg = 1,000 g

23 kg = _____ g

$$\begin{array}{r} 33 \\ +\ 49 \\ \hline \end{array}$$

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.

$$\begin{array}{r} 83 \\ -\ 22 \\ \hline \end{array}$$

10 cm = _____ mm

63 ÷ 9 = _____

Hannah rolls two dice. She adds the numbers on the two dice. What is the chance of this sum being five?

Rewrite these in increasing order of length:

918 mm, 688 cm, 202 m, 722 km

Circle the greatest number:

48,651 7,539,184,206

9,370 41,327,506

What time is 14 hours after 5:00 a.m.?

_____

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

eight hundred eleven thousand, seven hundred forty-nine

_____

6 x 8 = _____

$$\begin{array}{r} 224 \\ +\ 453 \\ \hline \end{array}$$

Name: _____

Connor took three numbers greater than 1 and multiplied them. One number was four and the other number was twelve. Of course, he forgot the last number, but he remembered the product was 277. Is this possible?

```
  914
- 349
-----
```

How many feet are in 5 yards?

_____ feet

886 - 432 = _____

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

Can 642 be evenly divided by 6? Circle:
642 is evenly divisible by 6
642 is NOT evenly divisible by 6

99,214 - 56,132 = _____

9 x 5 = _____

10 x 8 =

Three toys cost $6. At that rate, what is the cost of 9 toys?

Sarah and her little sister, Maria, both have birthdays on the same day. Sarah is ten years old. Maria is seven years old. Did you know that Sarah was once double the age of Maria? How many years ago was that?

132 ÷ 12 = _____

7 x 9 = _____

(6 + 7) + 7 =

Name: _____

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

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

BURROW • LACE • JOURNEY
POEM • SUFFICIENT • TRACE
IMPRISON • STABLE • DEVICE
AHEAD • DAMAGE • BOUNDARY
HAIL

7 x 12 = _____

56 ÷ 8 =

36 ÷ 4 =

The product of two consecutive whole numbers is 210. What are the two consecutive whole numbers?

11 x 4 = _____

4 x 5 =

7 x 10 =

120 ÷ 12 = _____

22 ÷ 2 = _____

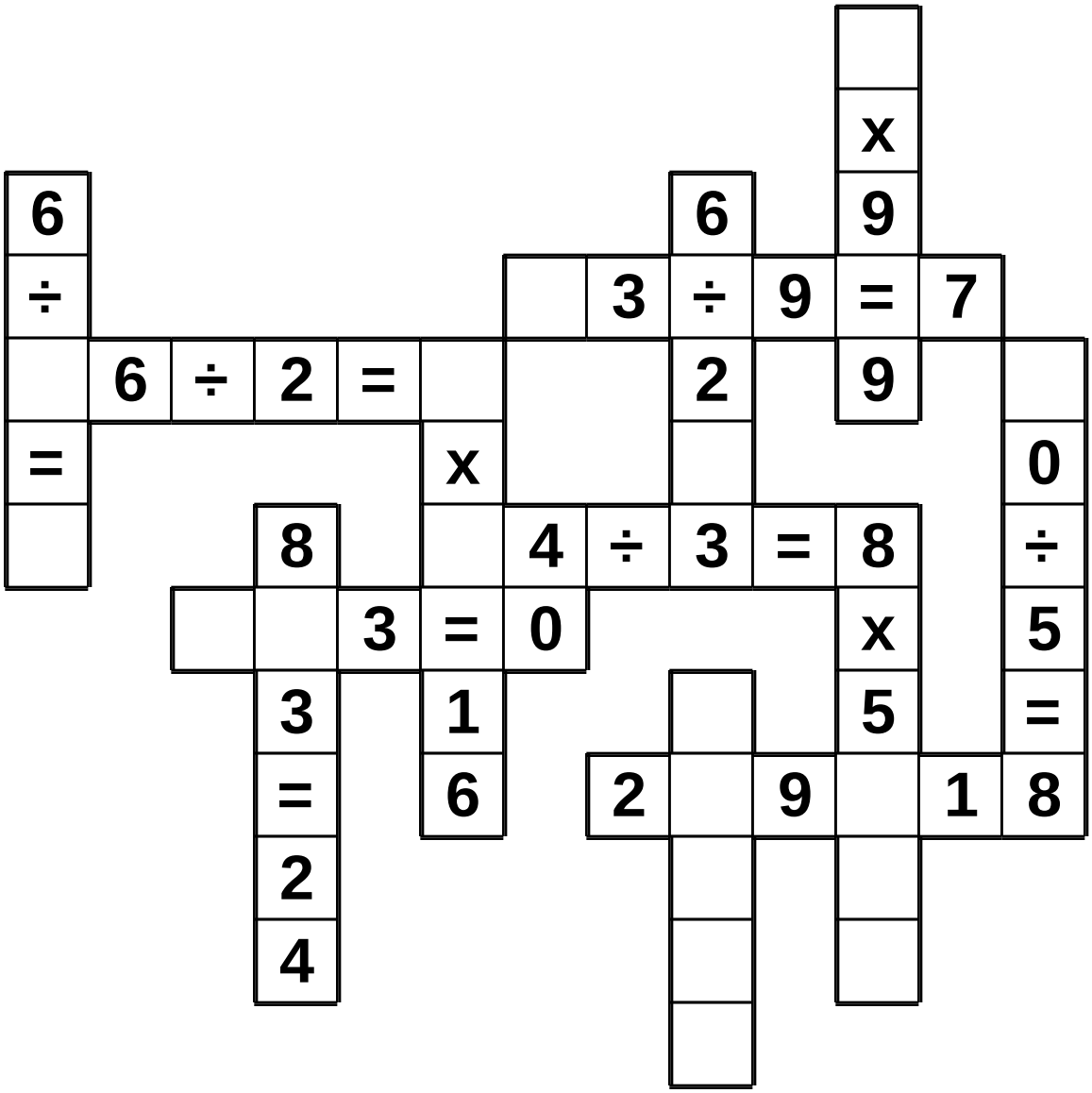
In the number 40,081,125,822, the digit 5 is in what place?

_____

Name: _____

1 • 6 • 1 • 8 • 4 • = • 6 • 2 • 0 • x • 3 • x • = • 3 • 4 • = 0 • 9

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



Rosa is younger than Hannah. Anna is younger than Rosa. Who's the youngest?

7,268 - 3,376 = _____

Name: _____

Emily is babysitting a few kids, and they are in the backyard collecting rocks. She asks how many rocks they collected so far and to round to the nearest ten. She likes having fun and teaching math!

a. David said he has 30 rocks. How many rocks could he really have before rounding?

b. Rose said she has 150 rocks. How many rocks could she really have before rounding?

Emma loves cars, and she has a dream job selling cars. Draw a circle graph to show the popularity of colors chosen by her customers. She sold a total of 300 cars in the last 12 months. She sold 50 cars that were pearl white, 25 solid black cars, 25 red multi-coat cars, 75 midnight silver metallic cars, and 125 deep blue metallic cars.

Find two consecutive numbers that have a sum of 191.

Find three consecutive numbers that have a sum of 69.

Anne referees soccer games. U12-U14 games are 35-minute halves. U15-16 games are 40-minute halves. U17-19 games are 45-minute halves.

Today she is working a U14 game that starts at 8:00 a.m. If halftime is nine minutes, what would be a reasonable estimate for when the game will end?

Name: _____

Use mental math to quickly solve.

0.125 x 10 = _____	5.14 x 10 = _____
21.7 x _____ = 2,170	74.5 x _____ = 7,450
0.26 x _____ = 2.6	4.33 x _____ = 43.3
94.7 x _____ = 9,470	3.9 x _____ = 3,900
_____ x 10 = 4.4	3.61 x _____ = 36.1
9.7 x 1,000 = _____	433.6 x 100 = _____
242.4 x _____ = 24,240	_____ x 10 = 5.75

50.06	10.2	0.06	2.03
x 2	x 8	x 4	x 3

4.58	9.53	4.48	5.47
x 9	x 7	x 3	x 4

Name: _____

Jack wrote the following program. He remembered to use * for multiplication in his code.

```
y = 8
m = 5 * y
print("Five times y is forty")
print("The value of m is ", m)
```

When this program is run, what will be printed to the screen?

Hints:

5 - 9 = -4

17y - 18y = -y

Solve:

5y - 9y =

14y - 15y =

14y + 15y =

9s + 3s - 11s =

s + s + s - 3 + 8 =

m + m + 5 - m =

15y - 7y + 17 =

27r - 8r + 11r + 6r =

63,193z - 682z =

5m + 14 - 7 + 11m - 1m =

If m = 5, then show what the result of the two equations above would be.

Did you get the same result for both equations?

Name: _____

Draw a line to match each problem with the same answer.

30% of 180	62% of 100	70% of 100	14% of 150
87% of 100	60% of 145	40% of 85	56% of 125
68% of 150	51% of 200	19% of 100	25% of 136
31% of 200	27% of 200	30% of 70	95% of 20

What is the number that is 4 less than 2?

On a number line, what is the number that is 8 spaces right of -4?

13 + -9 = ____

13 - 9 = ____

(15 + 6 + 10 + 8) =

If a = 9 and b = 7,
then
2a + b =

1 x 40 ÷ 10

What is the prime factorization of 15?

If a = 6, m = -4, and t = 13 then what is a - m - t?

y = x + 13
y = 23
What is the value of x?

Name: _____

$9\overline{)353.7}$ $8\overline{)47673.6}$ $4\overline{)167.6}$

Write the reciprocal.

$\frac{3}{1}$

Write the reciprocal.

13

Write the reciprocal.

$\frac{13}{24}$

Simplify.

$\frac{10}{12}$ =

p - $62 = $39
What is the value of p?

18t - 25.5 = 140.1

t =

A circle graph has four sections. Only three sections are labeled. The labels are 18%, 25%, and 16%. What should the missing section be?

The angles in a quadrilateral measure 139°, 104°, 66°, and v°. What is the value of v?

If a = -9 and m = 50 then what is the value of d?
12a - 8m - 2m = d

Name: _____

Sally bought a kit to make fidgets. The box says that you can make up to 387 fidgets, so that would be the most she could make. Sally tried to make one. It took her 33 seconds to make. How many fidgets can she make in an hour? Assume she takes a 13-second break after making each fidget.

80 is 100 times greater than 0.8

0.0004 is _____ times _____ than 400
14 is _____ times _____ than 0.14
0.059 is _____ times _____ than 59,000
920 is _____ times _____ than 0.00092

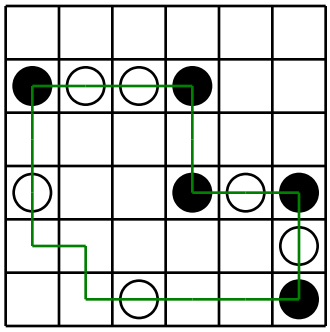
Name: _____

How many coos are equal to 12 snorts?

12 snorts = 18 chuckles
3 chuckles = 4 hisses
2 hisses = 3 coos

For field day, Mrs. Allen is preparing punch. She wants to make 5 gallons of punch. The recipe she found is only for 3 quarts. The recipe calls for $1\frac{1}{2}$ cups of pineapple juice, $\frac{1}{2}$ cup of orange juice, and the rest lemon-lime soda. In order to make 5 gallons of punch, how much of orange juice will Mrs. Allen need? Hint: She will need 10 cups of pineapple juice.

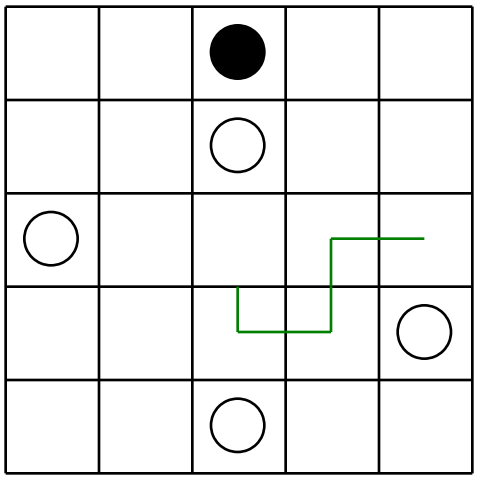
Name: _____



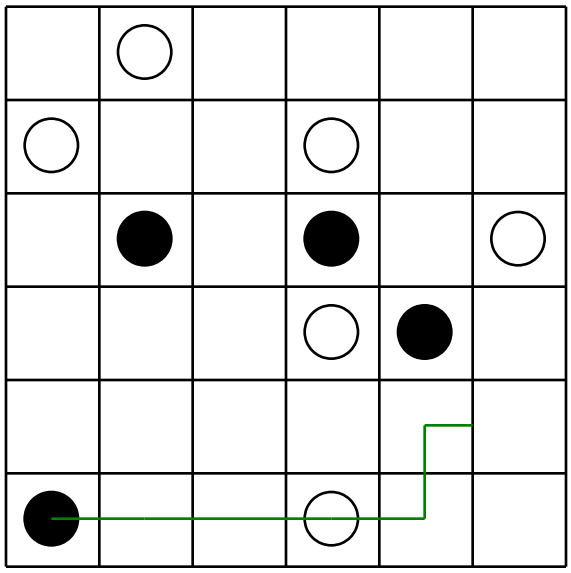
Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn.
You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

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

Finish the line:



Finish the line:



What number is halfway between 4 and 16?

33 ÷ 3 =

12 x 11 = _____

You cannot decide what pizza store to go to. Hannah's pizza cuts their pizza into 8 slices. Each slice costs $4 each. Jenna's pizza cuts their pizza into 5 slices. Each slice costs $4 each. If you like each pizza the same, which pizza store has the better buy?

7,729 - 7,296 = _____

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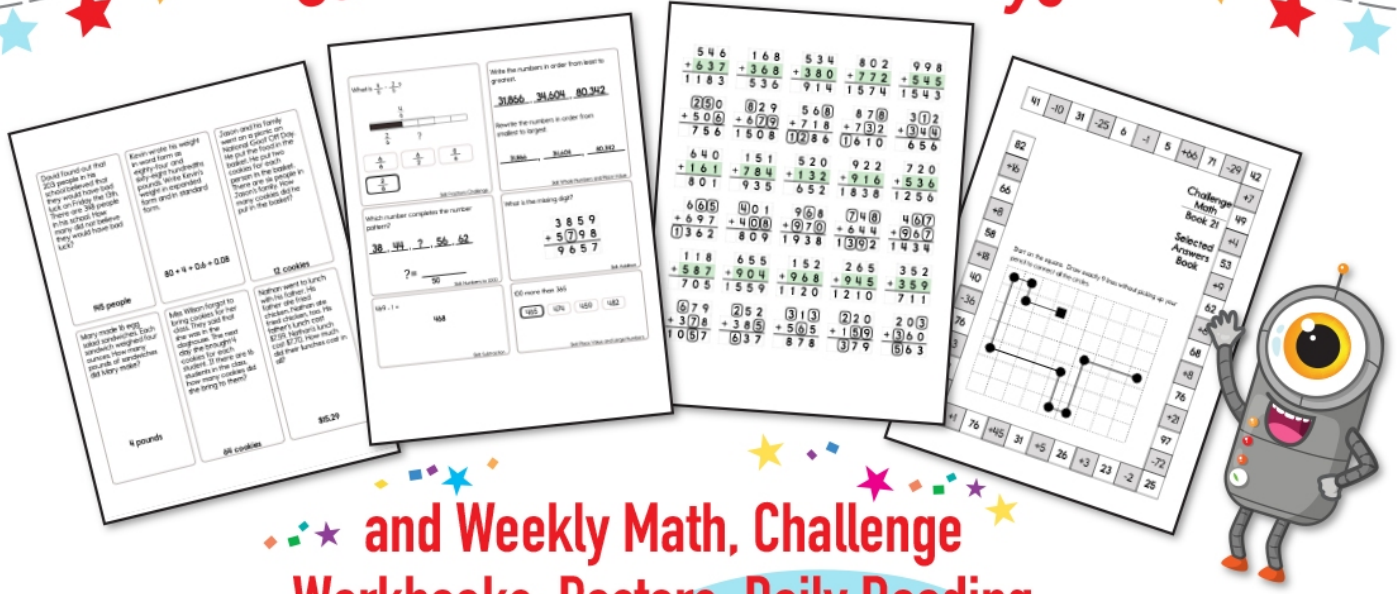

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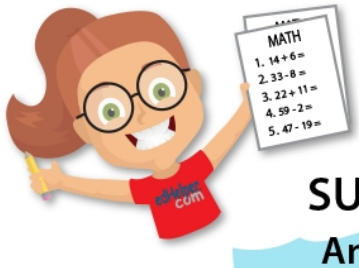

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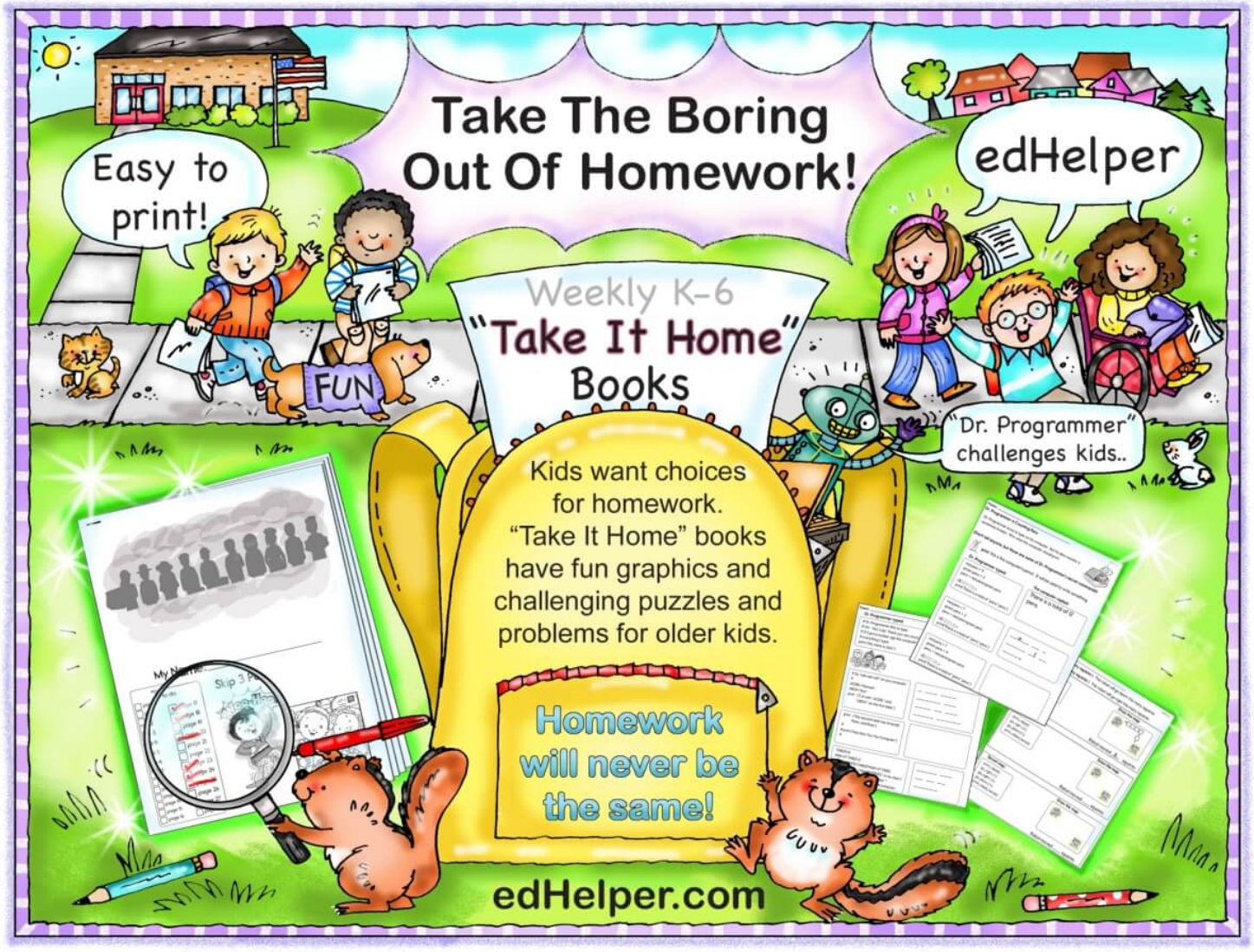
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