8	+64		-8		+2		-3		-7	
43										+34
-19										-35
-26										-47
-4										+6
+14										+31
+39										+44
										89
-1										-11
	-5		-28		+9		+18		-32	

Name: _____

Pick 25 to do: Skip 2 pages.

☐ page 1	☐ page 7	☐ page 13	☐ page 19	☐ page 25
☐ page 2	☐ page 8	☐ page 14	☐ page 20	☐ page 26
☐ page 3	☐ page 9	☐ page 15	☐ page 21	☐ page 27
☐ page 4	☐ page 10	☐ page 16	☐ page 22	
☐ page 5	☐ page 11	☐ page 17	☐ page 23	
☐ page 6	☐ page 12	☐ page 18	☐ page 24	

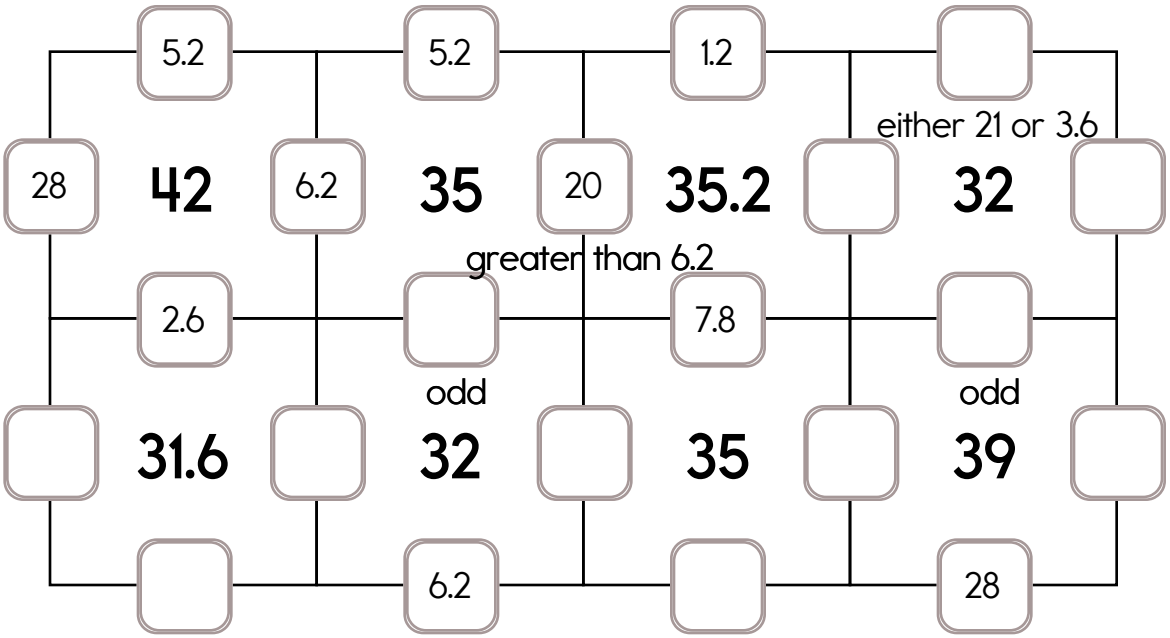
Challenge Math

Book 1

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: 20, 21, or 28.

The other three numbers have to all be DIFFERENT and must be from these: 3.6, 6.2, 5.2, 2.6, 1.2, 9.2, or 7.8.



Name: _____

"Did you know that our teacher has a brother named John?" asked Sally. "He's one of the fifth grade teachers."
"I hope he's my fifth grade teacher in two years," replied Anna.
"Me too," smiled Sally.
Billy gave us a look. "Well, I heard our teacher is not John's brother."
"Liar, liar, pants on fire!" yelled Anna and Sally.
"Actually," interrupted our teacher after hearing the noise, "no one is lying."
How can that be the case?

Show your work.

It's true! Neither Mrs. Jennings nor Sally are lying.

Name: _____

Ready to make equations? There is a missing equation in each box.
Circle the numbers once you find it!

A

	32	14	28
+	41	72	62
	21	75	78

Find an addition fact.

B

	94	85	43
+	72	64	9
	27	57	50

Find an addition fact.

C

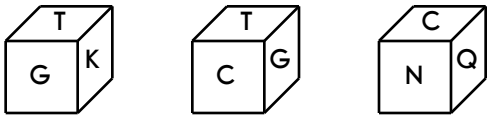
	25	14	78
+	84	69	67
	71	7	56

Find an addition fact.

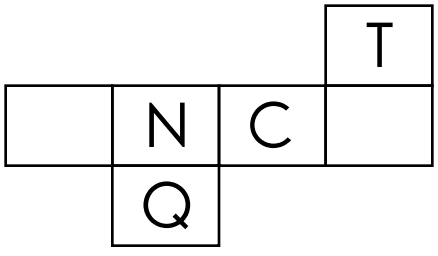
Equations:
Write the equation facts you found.

A	21	+	41	=	62
B		+		=	94
C		+		=	78

This is the look at one cube that is turned around a few times.



This pattern can be folded into the cube. Fill in the missing boxes.



Write the fraction for 0.49.

_____

Strong Stan likes to work out. He works out every day from 4:30 p.m. to 6:00 p.m. How many hours does he work out in 6 days?

$$\begin{array}{r} 12 \\ +\ 88 \\ \hline \end{array}$$

word root **form** can mean **shape** **formation, uniform**

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 14 less than 799?

How many tens are in the number 77,000?

Write the least possible 3-digit number using only 2 different numbers.

D, I, E, J, _____, K,

G, L, H, M, I, N

4 x ___ = 12 = ___ x 2

6 x ___ = ___ = 3 x 8

4 x 12 = ___ = 8 x ___

9 x ___ = ___ = 3 x 6

9 x ___ = 90 = ___ x 30

Write the number that is one hundred more than 4,753.

Name: _____

Emma has an older brother. And guess what? He likes to brag! "I just rode my bicycle all the way to the store. I bought everything myself that the teacher asked us to buy. And it only cost $50," said David.

Emma always waits until the last minute, so she forgot all about buying stuff for school. Her mom had given her a $50 gift certificate to the Quick Delivery website. She found what she needed on Quick Delivery: glue sticks for $4, a ruler for $4, two notebooks for $4 each, pencils for $1, tissues for $3, a backpack for $42, and a lunchbox for $22. Since she only has $50, she is thinking she could probably use her backpack from last year. But she forgot she might have to pay for shipping. Same day shipping is $6, next day is $3, and 2-3 days is free.

"When is school starting?" asked Dad.

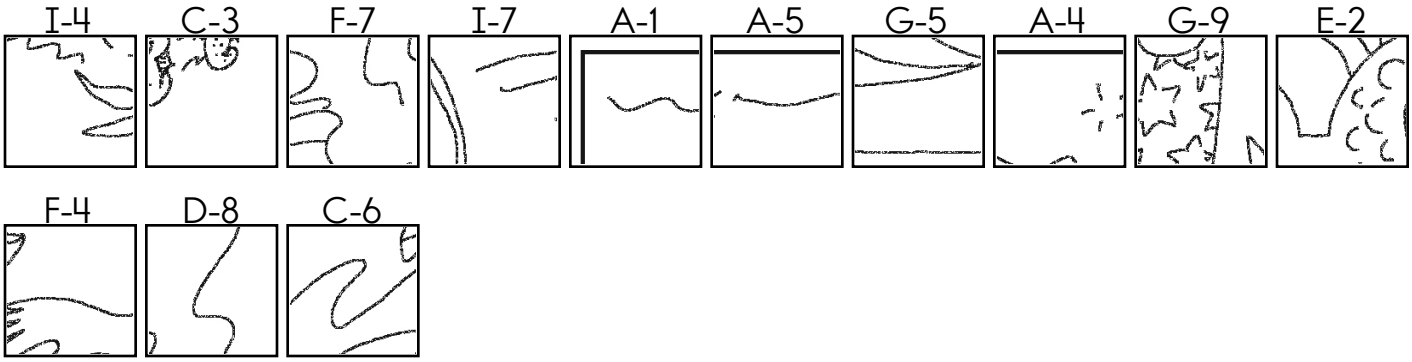
"In two days!" replied Emma's brother.

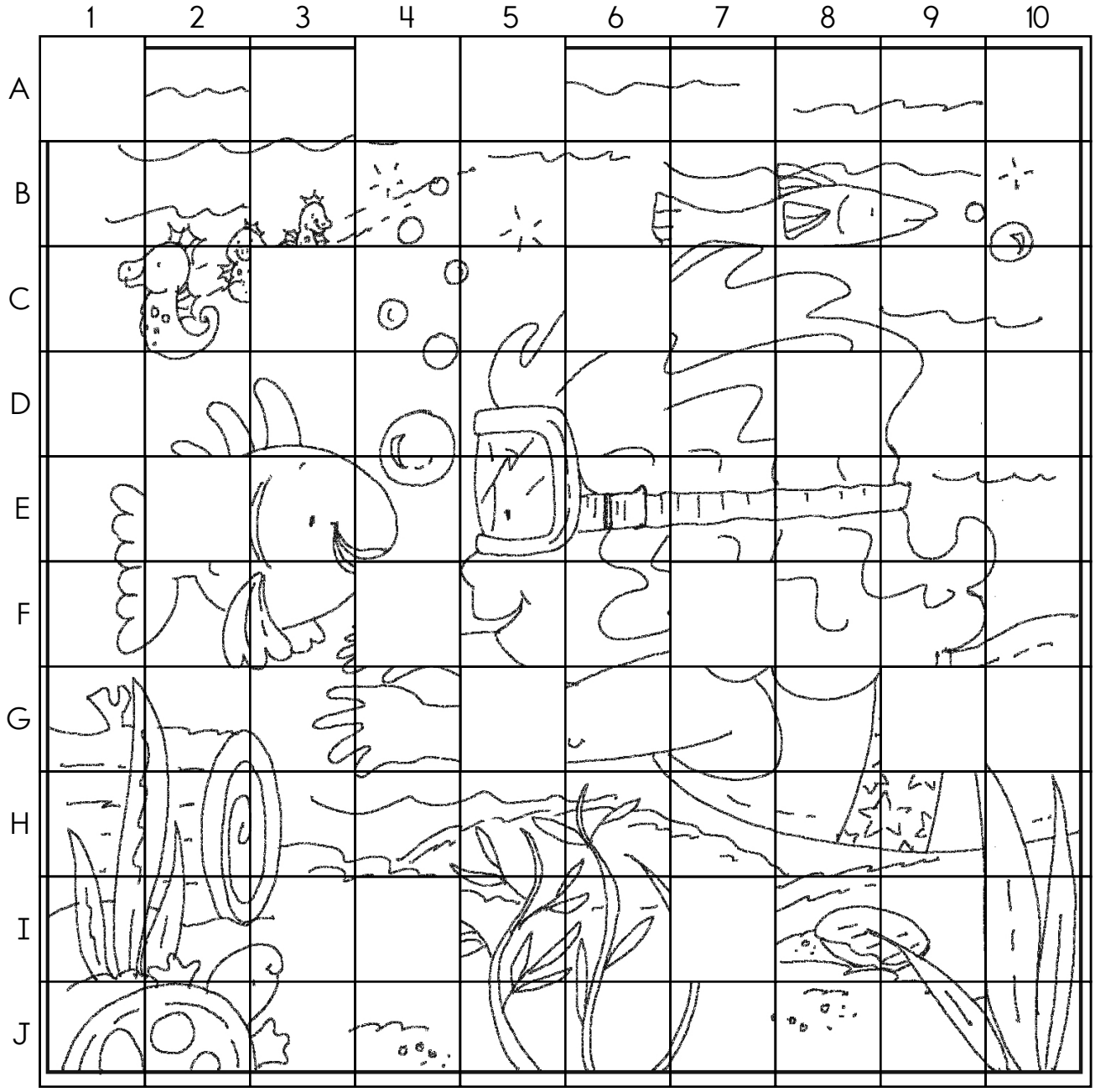
How much will Emma's purchase cost her?

Show your work.

Name: _____

Oh, no. This picture is all mixed up. Try to redraw the picture using the letter and number as a guide.





Name: _____

Cross off the letter that does NOT belong.

J, K, L, N, N, Q, R, P, T, R, W

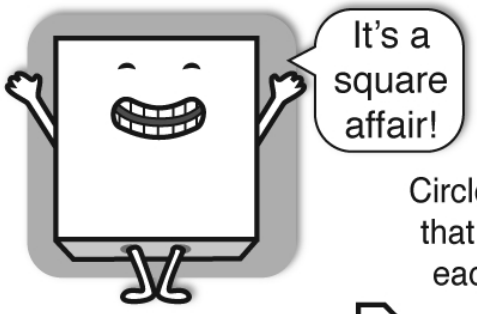
Why does _____ not belong in the pattern?

Cross off the number that does NOT belong.

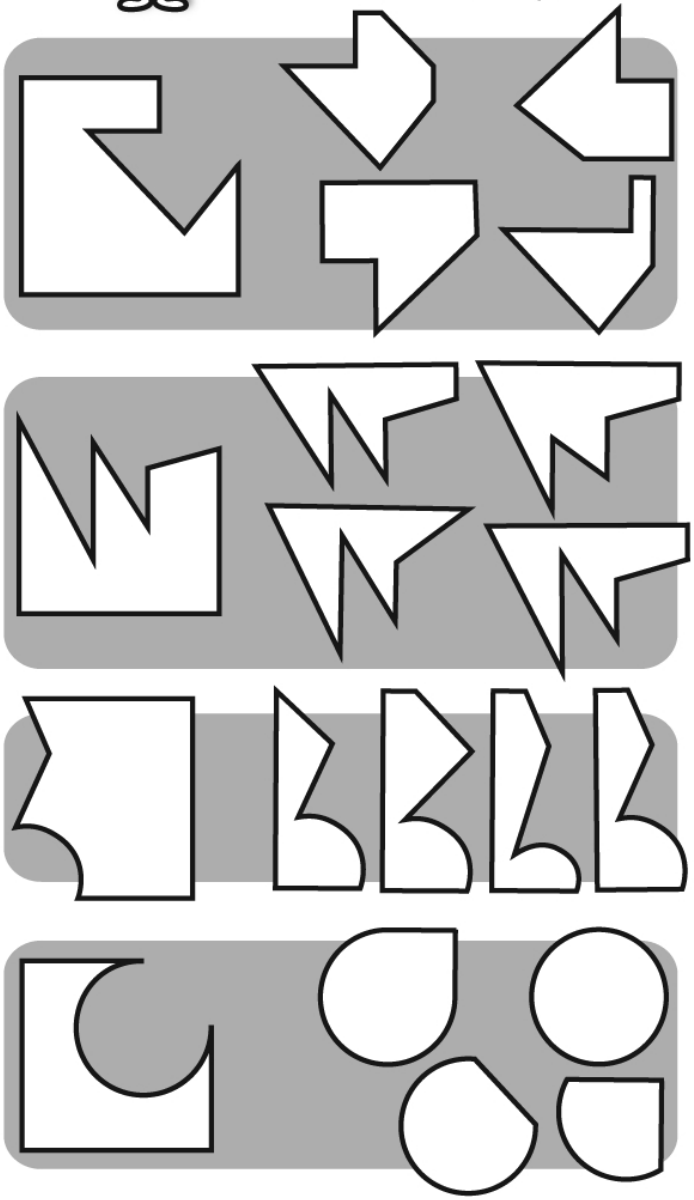
11, 17, 23, 32, 41, 53, 65, 80, 95, 96, 113, 131, 152, 173, 197

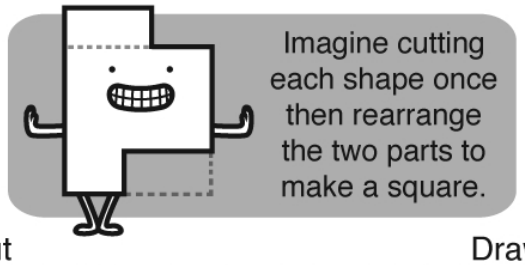
Why does _____ not belong in the pattern?

Name: _____

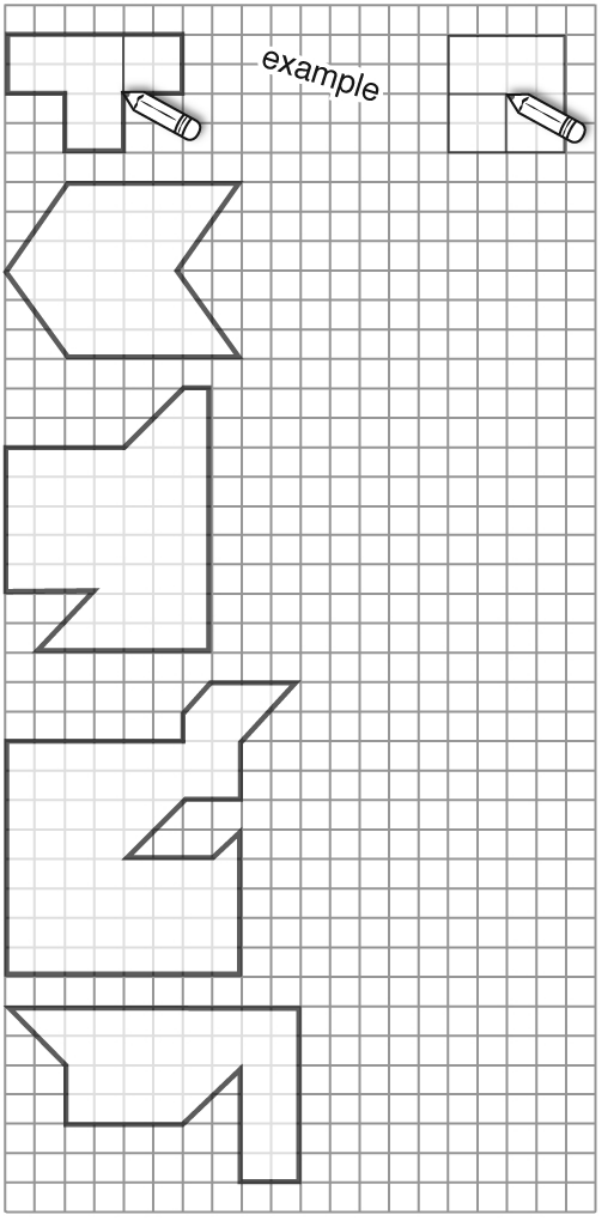


Circle the shape that completes each square.

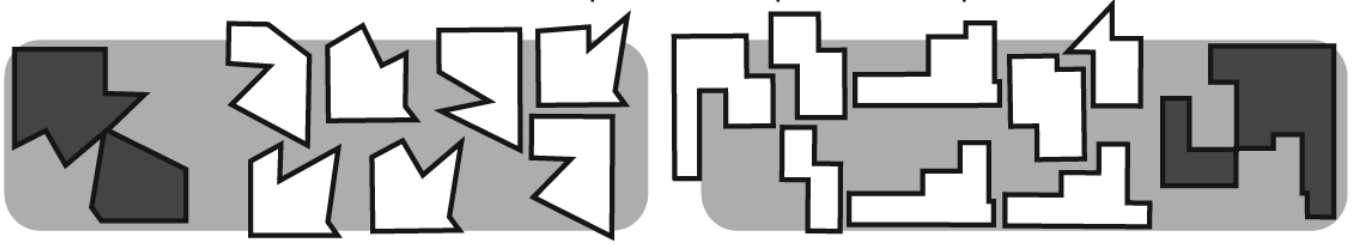




Cut Draw



Shade the **two** shapes that complete each square.



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.

__ __ 11 ones	__ __ __ __ 63 hundreds	__ __ 29 ones
__ __ 40 ones	__ __ __ nine hundreds and eight ones	__ __ __ two hundreds and three tens
__ __ __ __ __ four ten-thousands and four ones	__ __ __ __ __ five ten-thousands and five thousands	__ __ __ __ __ seven ten-thousands and two ones
__ __ __ __ three thousands and six hundreds	__ __ 70 ones	__ __ __ 83 tens
__ __ __ 52 tens	__ __ six tens	__ __ __ __ 36 hundreds

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 + 5 - 3 + 8 = _____	(10 + 1) x 1 = _____	9 + 9 - 2 = _____
6 x 3 + 2 = _____	9 + (4 + 8) = _____	12 - 5 + 6 = _____
3 + 2 - 4 = _____	9 + 2 - 7 = _____	1 + 7 - 7 + 5 = _____
5 x 10 - 1 = _____	6 + 2 + 8 - 1 = _____	4 x 9 - 6 = _____
4 + 4 + 2 = _____	2 x (7 x 4) = _____	3 - 3 + 5 = _____
12 x 7 + 8 = _____	6 - 5 + 2 = _____	(11 x 11) + 4 = _____
(3 + 8) - 4 = _____	5 + (3 + 3) = _____	4 + (3 + 3) - 2 = _____
12 + 4 x 4 = _____	7 - 2 - 1 = _____	8 + (5 + 1) = _____
5 + (5 + 1) = _____	6 + 11 - 4 = _____	6 - 5 + 9 - 1 = _____

Name: _____

120 + 157 =	579 + 764 =	913 + 698 =	163 + 700 =	958 + 421 =
186 + □□1 = 38□	47□ + □32 = 7□2	467 + □5□ = 9□1	□8□ + 643 = 9□2	5□1 + □03 = 10□
475 + 569 =	848 + 343 =	329 + 516 =	590 + 895 =	149 + 154 =
897 + 7□□ = □6□	□55 + 8□□ = 171	□04 + 795 = 1□□	4□□ + □78 = 12□	72□ + □35 = 1□□
536 + 706 =	527 + 163 =	884 + 234 =	153 + 239 =	480 + 171 =
□1□ + 618 = 9□4	3□9 + 49□ = □04	□□7 + 92□ = 1□7	785 + □□□ = 11□	□□4 + 30□ = 1□3

Name: _____

Justin bought a bag of candy. There were seventy pieces of candy in the bag. Some of it was red. Some of it was green. There were twenty-eight red pieces of candy. How many pieces of the candy were green?

David bought a tiny turtle for $1.25 and turtle food for $0.30. He gave the clerk $2. How much change did he get?

Gavin and Alex want to buy a book about knights and dragons. Gavin has $10.15. Alex has $2.63 less than Gavin. How much money do they have together?

Write the number that is one thousand less than 6,547.

What is the sum of 10 and 274?

You have a playdate in 300 minutes. How many hours is that?

Our class bought balloons for the first grade students on Mirth Day. We bought 17 red balloons, 14 green balloons, 10 blue balloons, and 13 yellow balloons. How many balloons did we buy in all?

Coach White put an equal number of students on each of 15 baseball teams for the Home Run Day games. There were 150 students on the teams. How many students were on each team?

Hunter paid $1.79 for a tsunami poster, $3.47 for a book, $2.63 for a pound of grapes, and $1.80 for a loaf of bread. How much did he spend on food?

How many hundreds are in the number 270,000?

Find the product of 6 and 4.

Round 193 to the nearest ten.

Name: _____

Abu rolled up his paper hat very tightly and put it in a bottle. He put a cork in the bottle and threw it into the ocean. Five days later the bottle washed up on a tiny island fifty-five miles away. If the bottle traveled the same distance each day, how many miles did the hat in the bottle travel each day?

Menhaden Market sells canned anchovies and sardines. Sixteen cans of anchovies are packed in a box. Eleven cans of sardines are packed in a box. If Daria's Deli buys nine boxes of anchovies and nine boxes of sardines, how many more cans of anchovies will she have than cans of sardines?

Write a 4-digit even number.

5 + 7 x 10

How many total legs are on 11 ants?

There were twenty-seven geese on the pond. Fifteen of the geese flew away. Write an algebraic expression for the number of geese left on the pond.

On No Housework Day Mrs. Moore invited three of her friends to play tennis. Each friend won two matches. Mrs. Moore won three matches to become the winner of the day! Write an expression to show how many matches were played.

Anne had 66¢ to spend on erasers. She bought several erasers at the same price and had 18¢ left over. How many erasers did Anne buy if each eraser cost 12¢?

How many total legs are on 14 tigers?

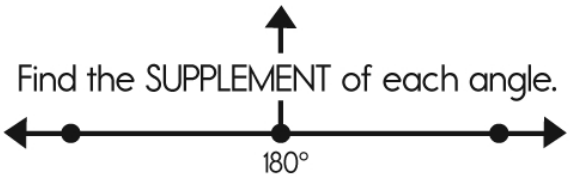
17 + ___ + 29 = 58

A book has 6 pages. Each page has 11 dimes. How many dimes in the book?

Name: _____

Complementary and Supplementary Angles

Find the SUPPLEMENT of each angle.



64° _____

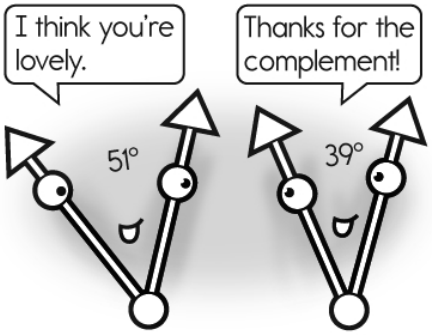
102° _____

15° _____

175° _____

88° _____

Find the COMPLEMENT of each angle.

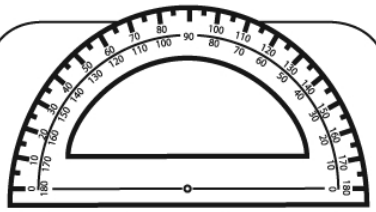


22° _____

10° _____

54° _____

71° _____



Find something in the room that is at an angle. Draw it here.

estimate the angle

°

_____

supplementary angle

°

_____

complementary angle

°

_____

Name: _____

Find 2 equations hidden in each box. Good luck!

5 - 3

2 - 1

9 - 3

8

5 - 0

1

5

4

Write 2 equations: _____ _____

13

9 + 2

15

4 + 9

6

5

12

2 + 4

3 + 6

4

Write 2 equations: _____ _____

81

3 x 0

27

5

12

7

9 x 6

9 x 9

5 x 4

8

25

15

0

1 x 1

Write 2 equations: _____ _____

Name: _____

Mr. Smith loves to give homework. "The more the better!" Mr. Smith always says to his students.

"I hope I get him next year," said Sally to April as they were walking to school. She had heard about the daily homework pass. "Did you hear that if you are the first to answer the question of the day on the board, you can skip homework for a week?"

"I know," said April. "He is my teacher this year. I hope you get him next year. Anyway, see you later after class."

When April walked into class, she saw Mr. Smith had already written the challenge:

"Would you believe in my family, my brother, my sister, and myself were all born in August? My older brother, John, was born in 1976. We were born 3 years apart. My older sister, Samantha, was born in 1973."

How old was Samantha when Mr. Smith was born?

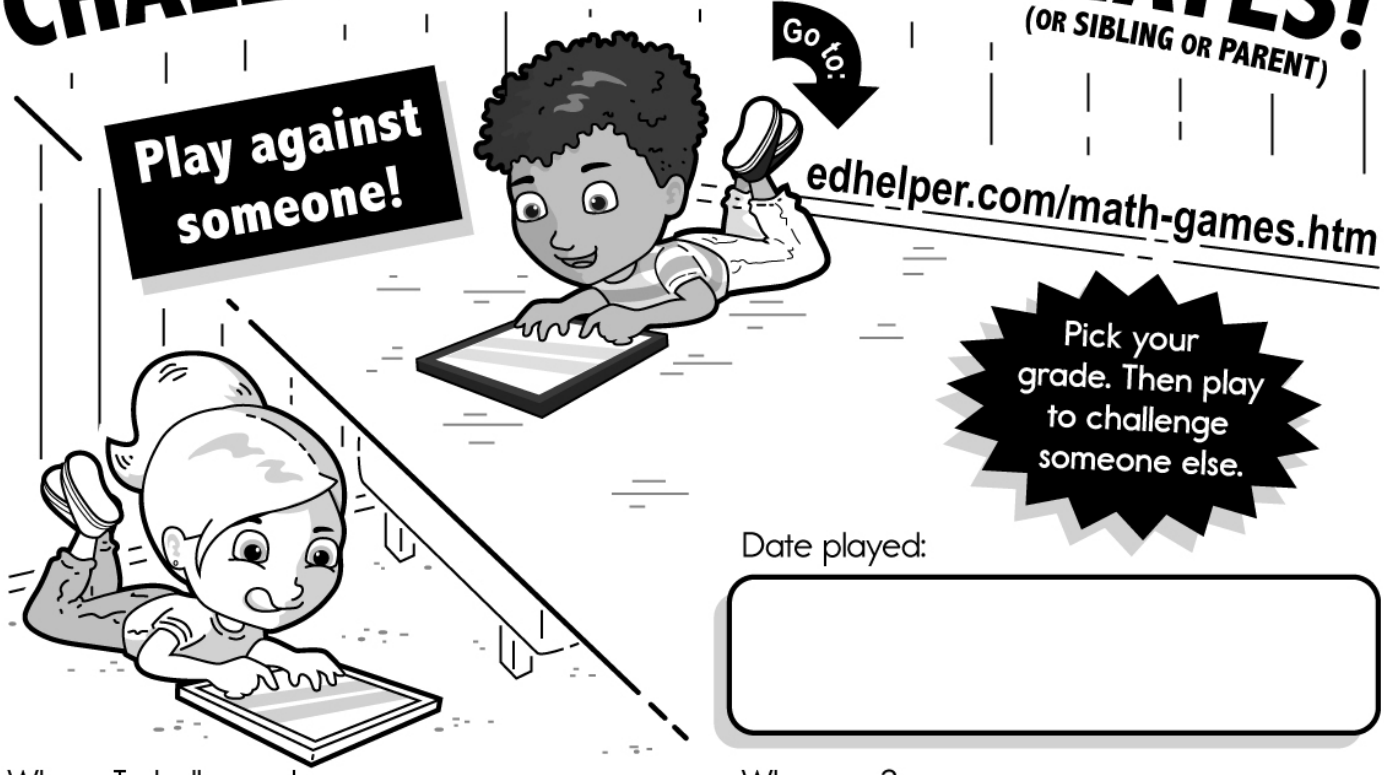
The next day the board said:

"How old is Mr. Smith?"

Name: _____

CHALLENGE YOUR CLASSMATES!

(OR SIBLING OR PARENT)



Date played:

Whom I challenged:

Who won?

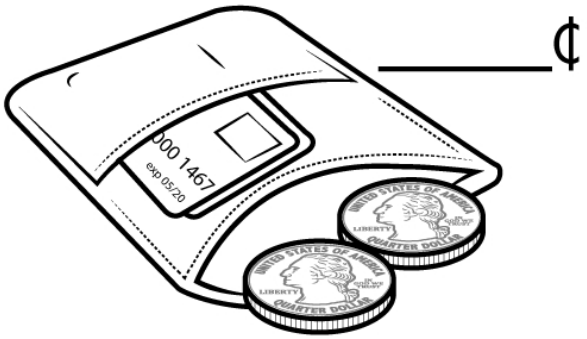
Explain what you learned from one math problem you got wrong.

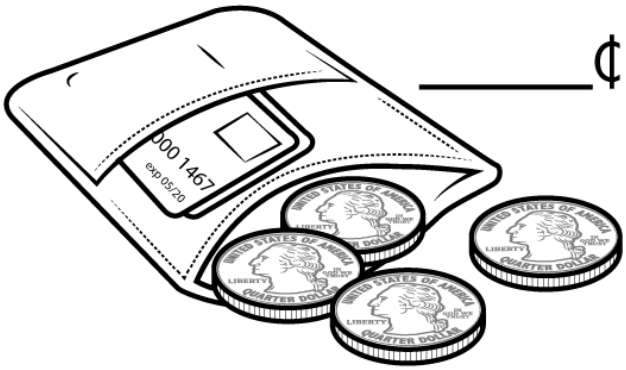
21 ÷ 3 =	How many minutes are there from 7:30 p.m. until 8:15 p.m.?	Write the number that has exactly 5 hundred thousands.

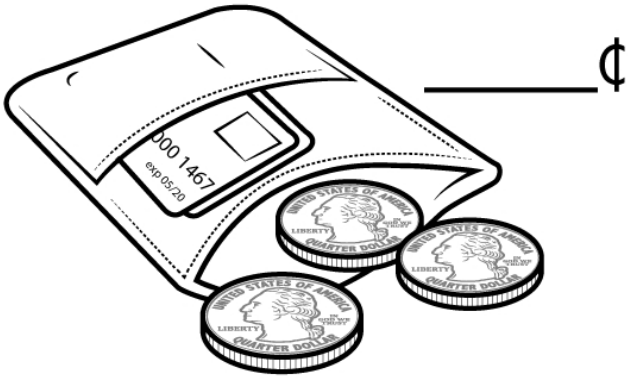
Name: _____

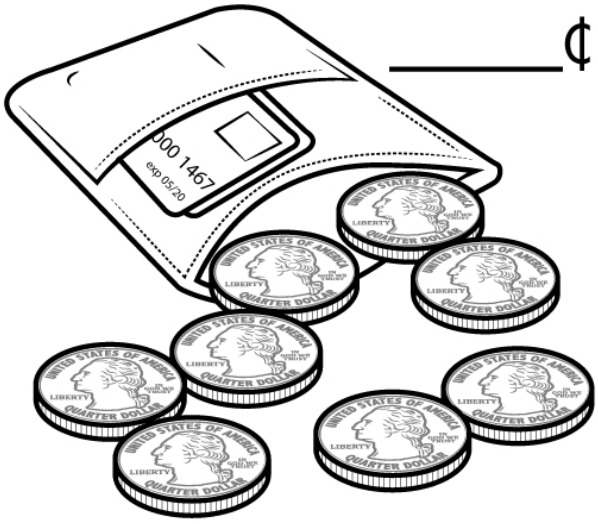
Counting Quarters

25¢ 50¢ 75¢ $1.00 $1.25 $1.50 $1.75 $2.00

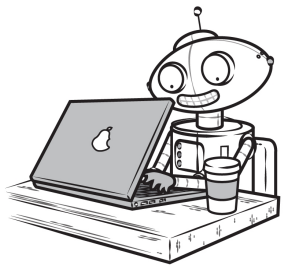








Name: _____



Dr. Programmer loves to type on his computer. But his darn monitor is sometimes broken. Fill in what the computer should print.

Dr. Programmer typed:	The computer replied:
tens = 4 ones = 6 print ("My number is ",tens,ones)	My number is 46
tens = 3 ones = 3 print ("My number is ",tens,ones)	__ _____ __ __
tens = 6 ones = 2 print ("My number is ",tens,ones)	__ _____ __ __
tens = 7 ones = 5 print ("My number is ",tens,ones)	__ _____ __ __
ones = 7 tens = 7 hundreds = 5 print ("My number is ",hundreds,tens,ones)	__ _____ __ ____

word root **duct** can mean **lead** **abduct, deduct, deduction**

Name: _____

```
ones = 2
tens = 7
hundreds = 4
print ("My number is ",hundreds,tens,ones)
```

__ _____ __

____

```
ones = 2
tens = 6
hundreds = 3
print ("My number is ",hundreds,tens,ones)
```

__ _____ __

____

```
tens = 7
print (tens," tens is ",tens,'0')
```

7 tens is 70

```
tens = 8
print (tens," tens is ",tens,'0')
```

_ ____ __ __

```
tens = 6
print (tens," tens is ",tens,'0')
```

_ ____ __ __

```
tens = 55
print (tens," tens is ",tens,'0')
```

55 tens is 550

```
tens = 42
print (tens," tens is ",tens,'0')
```

__ ____ __ ___

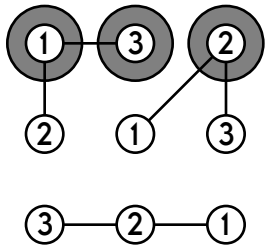
Name: _____

Draw an area model to solve 34 x 7.

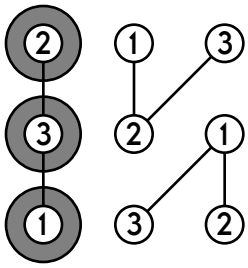
Erin can't find her phone, so she is using an old fashioned map to see how far away two cities are. She measured that they are a little more than 6 centimeters apart. If the scale says that 1 cm = 14 kilometers, then about what is the real distance?

Name: _____

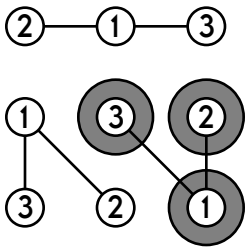
Each column must contain different numbers.

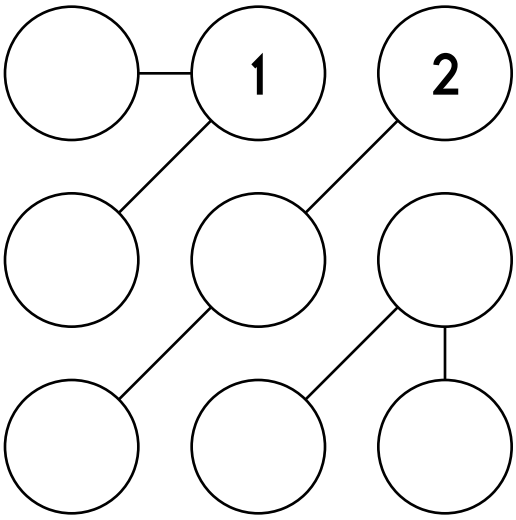


Each row must contain different numbers.

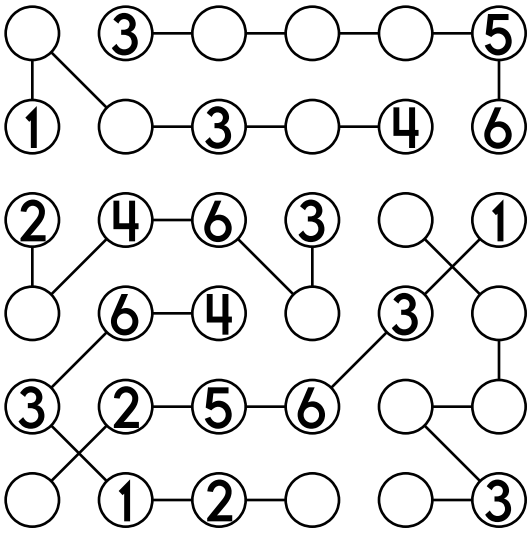


Each connected group must contain different numbers.

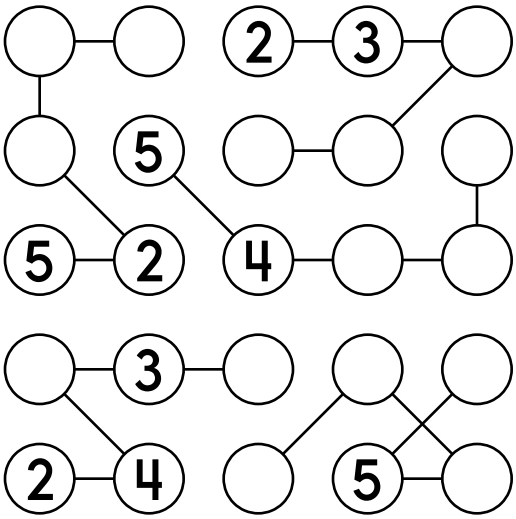




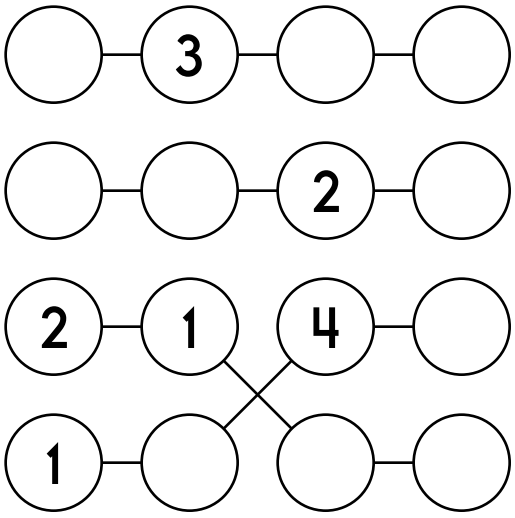
Use the numbers 1 through 3.



Use the numbers 1 through 6.



Use the numbers 1 through 5.



Use the numbers 1 through 4.

Name: _____

Sudoku Sums of 9

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 9.

Here is an example of a sudoku sum of 9:

3	6

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

Circle the word that is spelled correctly.
My favorite animal at the zoo is the (zebra, zeebra), although I am not sure if he has black stripes on a white body, or vice versa!

One side of a square measures six centimeters. What is the area of this square?

_____

○ allo
○ uhluo
○ allaw
○ allow

Make a pattern.
Start with 15.
Add 4.

_____ , _____ , _____ , _____ , _____ , _____

If you add 8 to me, the sum is 85. What number am I?

_____

It is 84 degrees Fahrenheit outside. What would you wear if you are going outside?

_____

Circle the largest number.
603 551 553
675 625

Name: _____

Nathan tried to measure his resting heart rate. His heart beat a total of 40 times in 27 seconds. Jessica measured hers. She counted a heartbeat of 149 in 140 seconds.
Well-trained athletes tend to have resting heart rates that can be as slow as 40 beats per minute. Would you guess that Nathan or Jessica was a well-trained athlete?

Gavin cannot decide which of the following two clubs to join, so he wants to pick the club with the most boys. Which club should he join?

The Earth Club has a total of 36 members. There are 4 more girls than boys.

The Gamer's Club has a total of 40 members. There are 4 more girls than boys.

The grocery store sells 2 cases of Mary's Water for $10. They also offer 3 cases of Cool Water for $15. If you like both brands equally, then which brand of water is the better deal?

Two games require players to collect gold coins. Here is how many coins are needed for each level of the game Umba:
Level 1: MMMM
Level 2: MMMMMMMM
Level 3: MMMMMMMMMMMM
Coins needed for each level of the game Yinka:
Level 1: MMM
Level 2: MMMMMM
Level 3: MMMMMMMMM
Did you notice each game follows a pattern? Which game would require the most coins to complete level 8?

Each M is equal to 2 gold coins.

Name: _____

FUN BREAK!

Play a game online!

edHelper.com/math-games.htm

I PLAYED ONE GAME

☐ (Check the box after you play.)

MY SCORE

_____

465 + 8 =	Is 12 a composite or a prime number?	In the parking lot there are 10 vehicles. There are 2 SUVs. What fraction of the vehicles are not SUVs?
Is 29 a composite or a prime number?	Write the number that has exactly 13 ones.	What number is halfway between 0 and 14?

Name: _____

Hannah collects squishies. Before she started getting serious about collecting, she only had 8 of them. But now she has 21 squishies. She ordered 6 really big squishies online. They should be delivered next week on her birthday. And guess what? Next week on her birthday, she invited 4 friends over for a slumber party. In the invitation she said, "No gifts. Just give me 3 squishies."

On the day after her birthday, how many squishies will Hannah have?

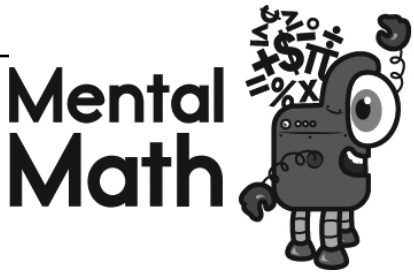
It's Saturday, and Emily only has one thing to do today, walk Rocky. Emily woke up at 9:49 in the morning, and immediately went for a walk with him. While she went for this first walk of the day, Emily set an alarm on her phone to remind her to walk Rocky every three-and-a-half hours. And that's exactly what she did! At 10 p.m. Emily fell asleep. How many walks did Rocky get?

☐ I did page 26 ☐ I decided to skip this page

edHelper

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 5 in your head	imagine 7 in your head	imagine 6 in your head	imagine 3 in your head
multiply 10	multiply 12	multiply 7	add 8
double it	add 2	add 6	add 3
	subtract 7	add 2	subtract 6
	double it	double it	
	subtract 8		
Add the tens digit to the ones digit. Write the sum.	Write the hundreds digit.	Write the tens digit.	Write the number.
____	____	____	____

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**

5 after 11 _____	6 before 19 _____	2 after 15 _____
6 after 19 _____	1 before 13 _____	4 after 12 _____
3 after 17 _____	8 before 16 _____	9 after 13 _____

Name: _____

Emma, Wendy, and Maria made a book about Blame Someone Else day. The book was twenty-two pages long and had twelve pictures. Emma drew all the pictures. Wendy wrote half of the pages. Maria wrote half of the pages. How many pages did Wendy write?

Amanda went to the circus with her father and mother. The best part of the circus was the clown. He could juggle and make people laugh at the same time! The tickets cost $5.57 each. How much did it cost for Amanda, her father, and her mother to go to the circus?

The students in Ms. Anderson's class were planning to decorate white t-shirts with fabric paint on White T-Shirt Day. Rosa's mother went to the store and bought a new white t-shirt for her. The t-shirt cost $4.30. She gave the clerk $10. How much change did she get?

Add one hundred to 162.

_____

Which is smaller, $\frac{2}{3}$ or $\frac{1}{3}$?

_____

Circle the correctly spelled word.
lak, offen, seek

- ○ mud
- ○ muhd
- ○ mihd
- ○ muuhd

What are 10 tens equal to?

_____

$$\begin{array}{r} 81 \\ +\ 52 \\ \hline \end{array}$$

The factors of 15 are 1 3 ___ ___

How many inches are in one foot?

_____

Fill in the missing fraction.

$\frac{1}{5}$, $\frac{2}{5}$, _____ , $\frac{4}{5}$

$$\begin{array}{r} 72 \\ -\ 45 \\ \hline \end{array}$$

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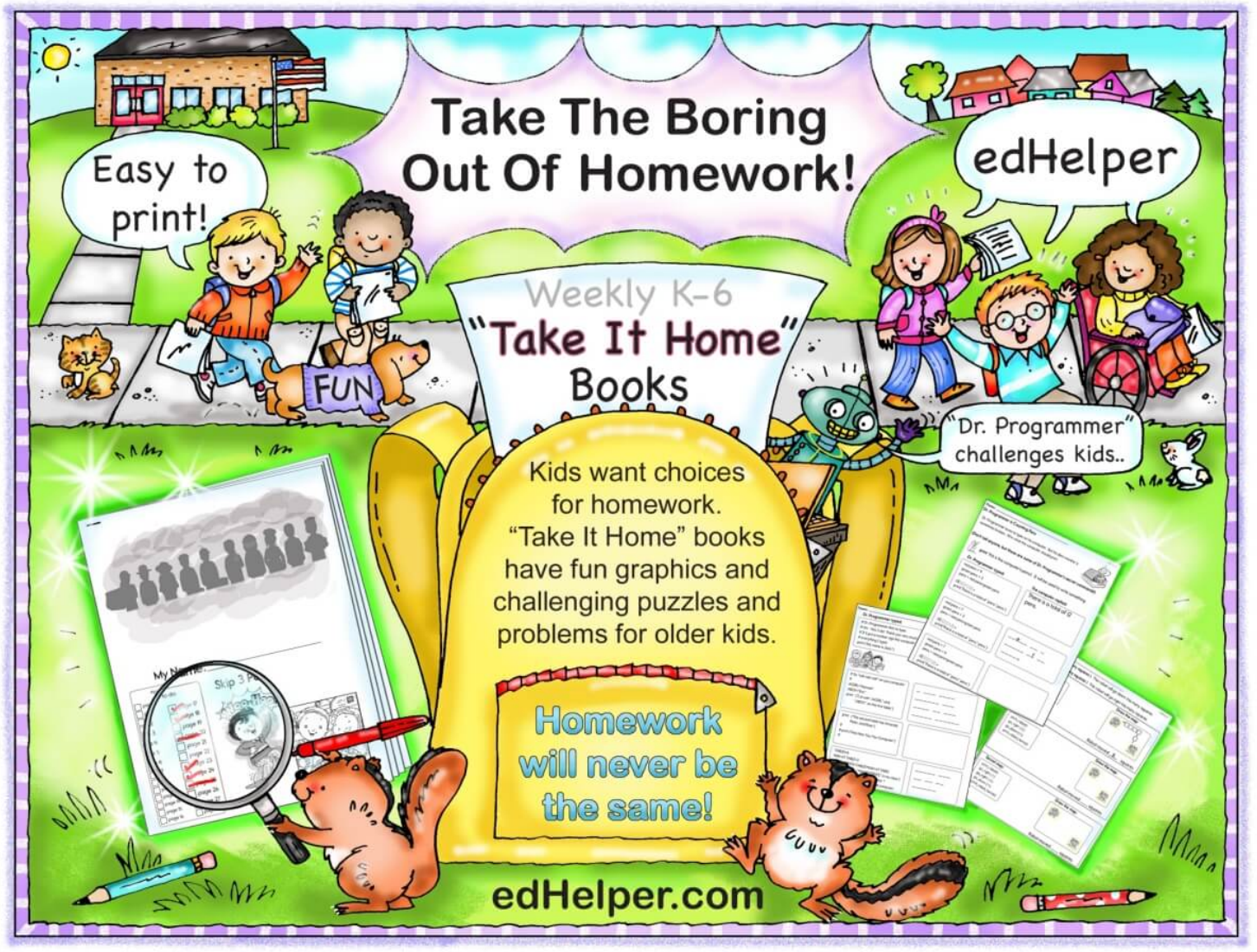
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