MONTHLY MATH CHALLENGE

September

My Name: _____

Do all of these, but skip 2 pages:

- ☐ page 1
- ☐ page 2
- ☐ page 3
- ☐ page 4
- ☐ page 5
- ☐ page 6
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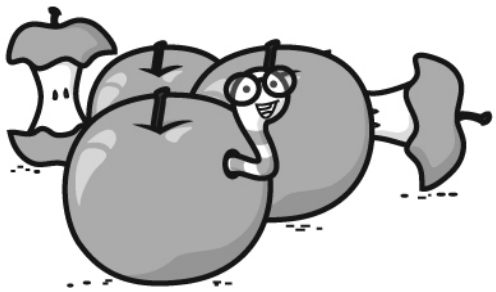
- ☐ page 32
- ☐ page 33
- ☐ page 34
- ☐ page 35
- ☐ page 36
- ☐ page 37
- ☐ page 38
- ☐ page 39

Find a helper to double-check your work. Write their name:

Name: _____



An apple tree had a lot of apples. I say "had" because half of the apples it "had" had fallen to the ground. Do you see them?

How many apples were on this tree before any fell to the ground?

Show your work.

Name: _____

FUN BREAK!

Play a game online!

edHelper.com/math-games.htm

I PLAYED ONE GAME

☐ (Check the box after you play.)

MY SCORE

_____

8, 16, _____, 32, 40, 48, 56

Estimate. Write an EVEN number. About how many pencils can you hold in your hand?

$$\begin{array}{r} 22 \\ +\ 10 \\ \hline \end{array}$$

Wendy has eight tickets to the middle school play. She gave April a ticket. She gave two tickets to Jenna. How many tickets does Wendy have left?

Find three ways to make 6.

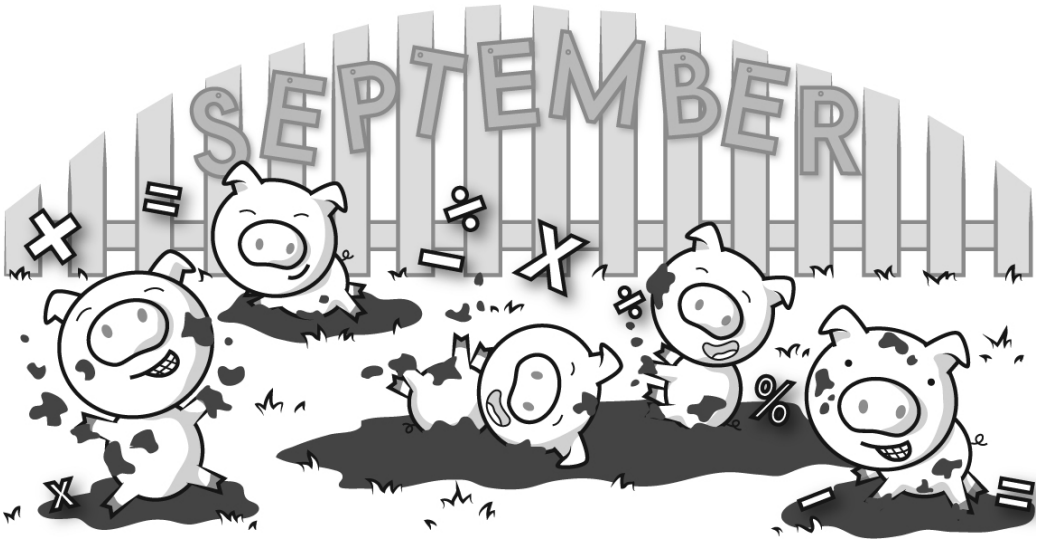
___ + ___ = 6

___ + ___ = 6

___ + ___ = 6

Erin loves reading. She read 3 books this month. She plans to read 7 more. How many books will she read this month?

Name: _____



The swimming pool is closed in September. But guess what? The pigs do not care! The mud pool is open.
The mud pool is open from 9 in the morning until 3 in the afternoon. How many hours is the mud pool open each day?

Pilly the Pig woke up late. She woke up at 10 o'clock. It took her another 30 minutes to get up and go to the mud pool. If she stays until closing, how long can she enjoy the mud pool?

☐ I did page 4 ☐ I decided to skip this page

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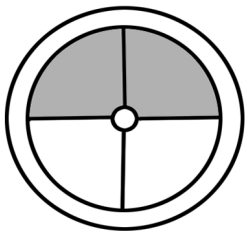
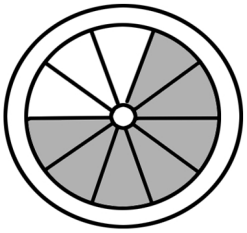
Name: _____

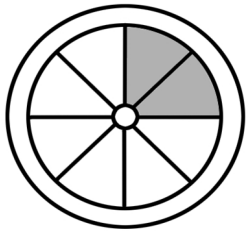
Finish each fraction.



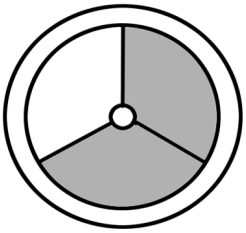
$\frac{2}{4}$



$\frac{\quad}{10}$



$\frac{\quad}{8}$



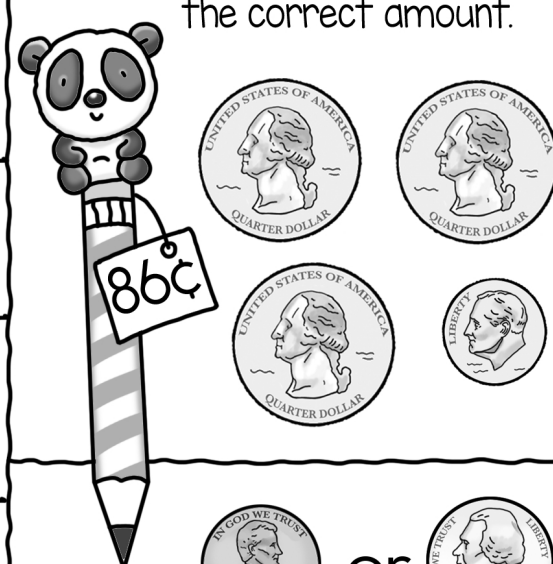
$\frac{\quad}{3}$

22	13	35	64	17
+ 16	+ 28	+ 77	+ 24	+ 39
____	____	____	____	____

Fact Families

8+ 3 =11	11= 3+ 8
7+__=12	12= 5+__
9+__=15	15= 6+__
2+__=6	6= 4+__

Ella doesn't have enough money to buy the cute panda pencil. Circle the coin she needs to pay the correct amount.



circle one:

or

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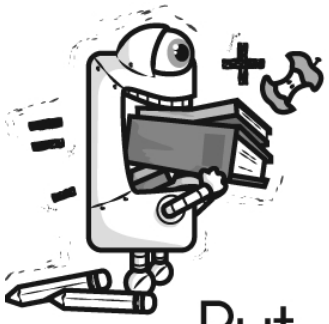
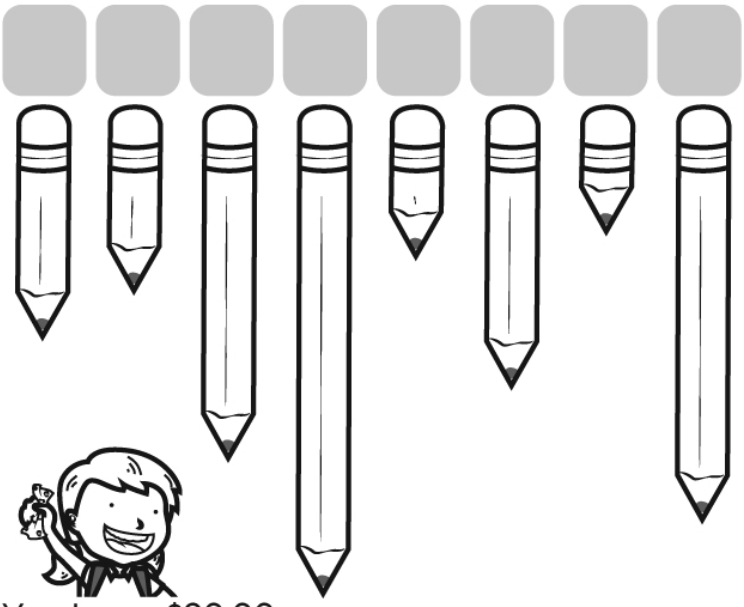
Name: _____



Put in Order:
Longest to Shortest



You have $20.00.

Can you buy each group of school supplies?

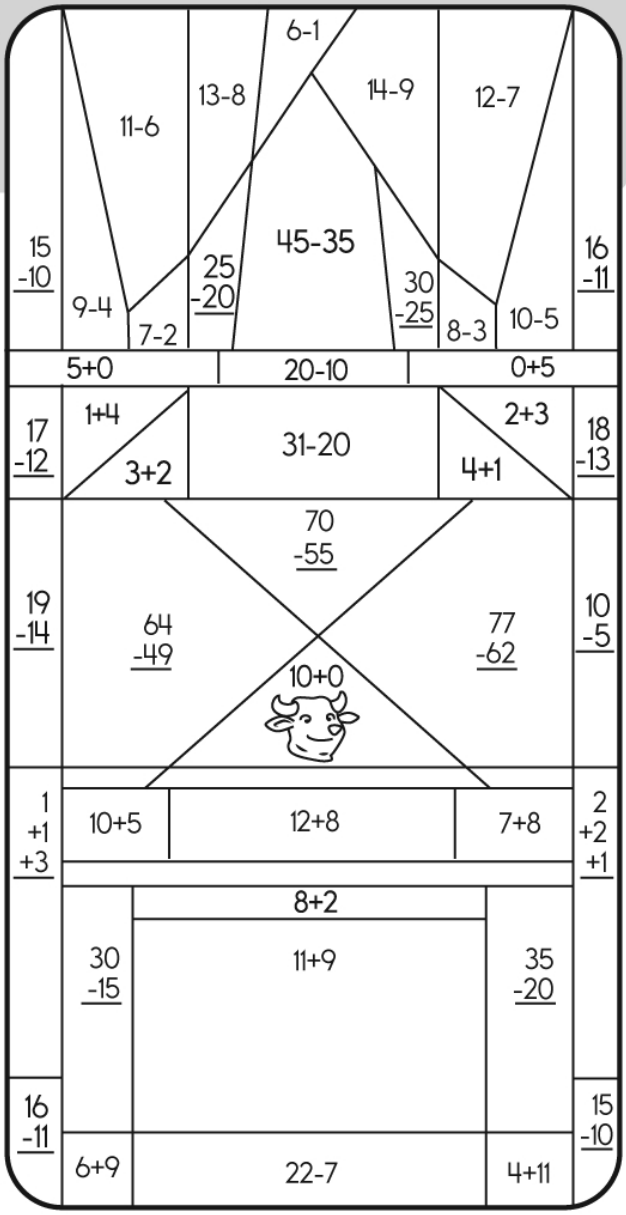
Y or N ☐

Y or N ☐

Y or N ☐

Color by Mixed Math

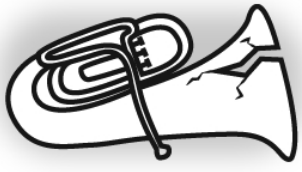
5 - gray
10 - orange
15 - white
20 - blue



How do you fix a broken tuba?

_	_	_	_	_	_	_	_	_
1	6	7	2	1	!	4	5	7	3

A	B	E	G	L	T	U
1	2	3	4	5	6	7



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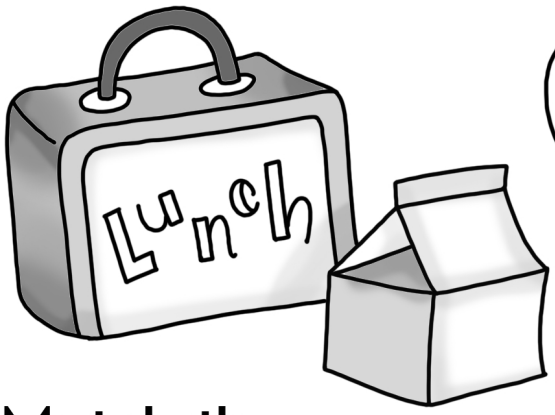
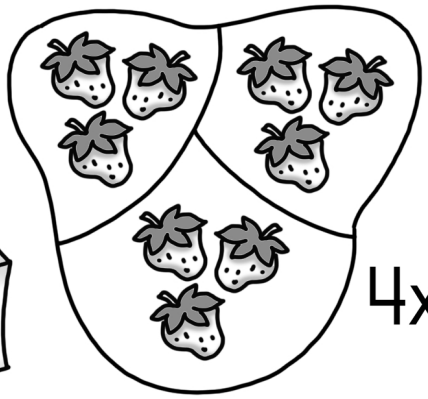
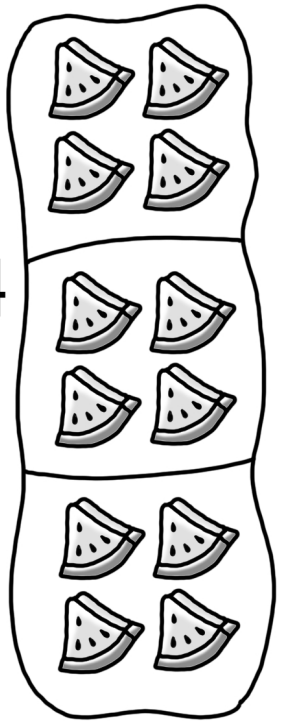


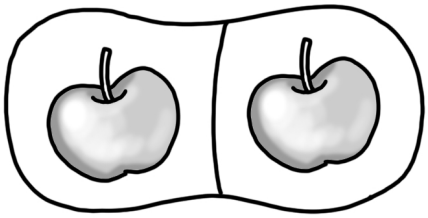


4x3=4

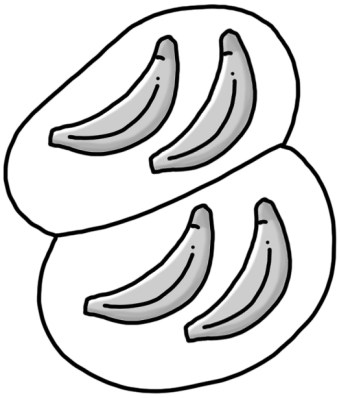


Match the group of objects to its equation.

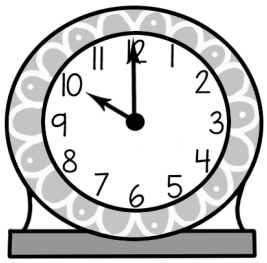
3x3=9

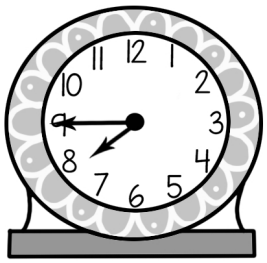


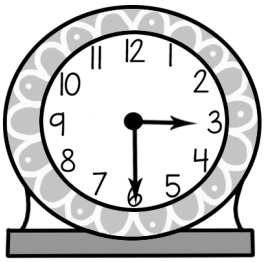
1x2=2

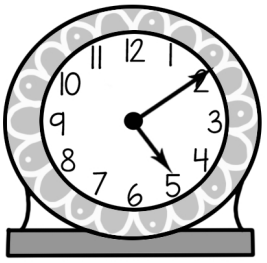


2x2=4









__:__ __:__ __:__ __:__

Count by 10s.

10	20		40			70			100
110	120			150				190	

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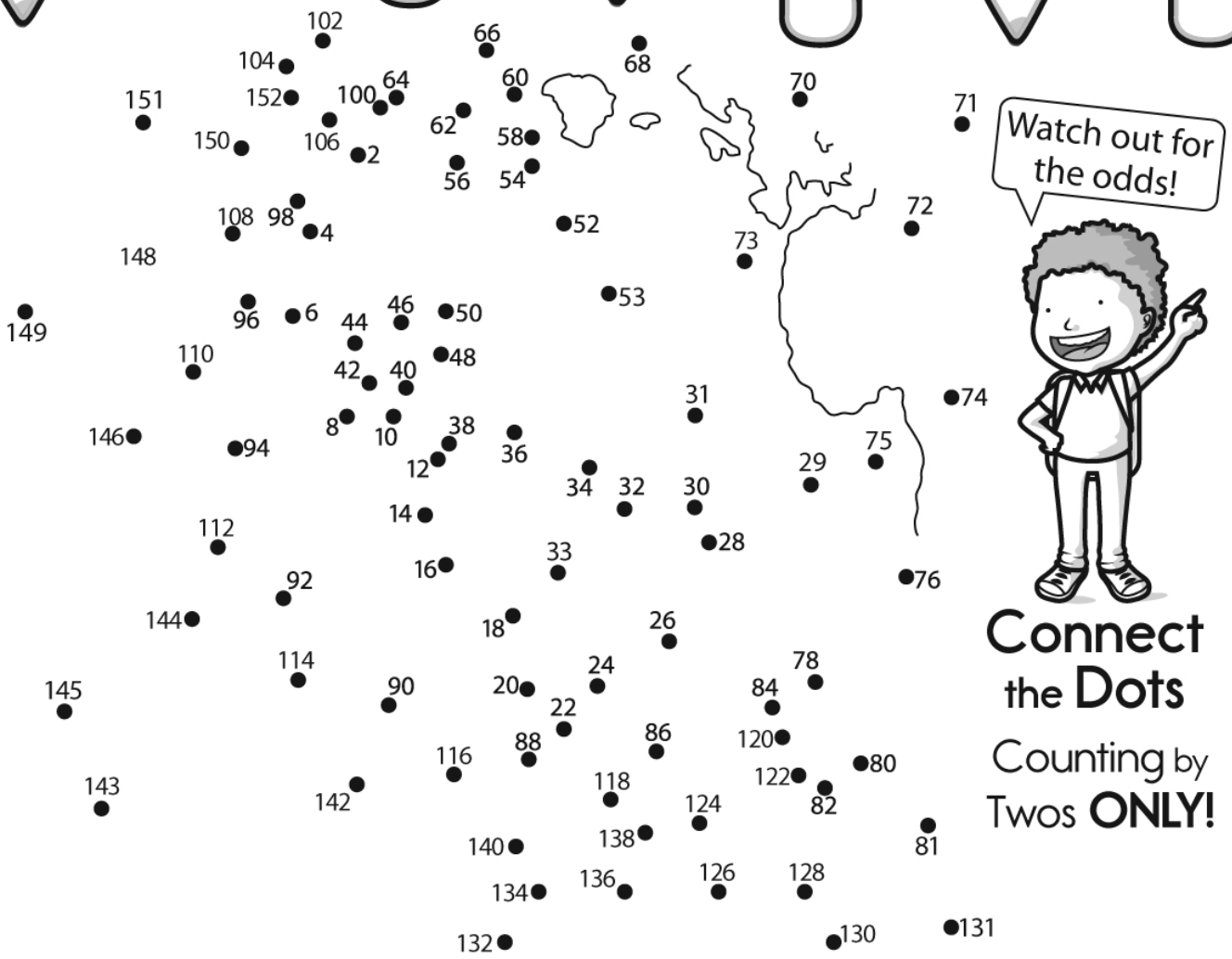
Name: _____

Shade all the spaces with **even** sums.

10 +22	10 +33	8 +25	7 +28	13 +34	20 +13	100 +25	75 +16	80 +41	65 +14	26 +15	61 +12	33 +18
11 +33	28 +18	19 +19	21 +41	32 +84	32 +64	23 +23	75 +25	42 +26	64 +46	26 +38	19 +49	36 +14
17 +22	31 +44	88 +13	19 +44	31 +28	13 +66	18 +21	15 +16	32 +17	26 +17	64 +27	55 +16	51 +21
43 +25	71 +29	85 +11	100 +10	46 +44	23 +17	15 +19	51 +21	90 +10	88 +12	55 +33	51 +29	47 +13
15 +15	23 +66	77 +32	82 +17	62 +19	18 +9	54 +13	84 +25	41 +52	99 +4	36 +17	45 +12	57 +34
53 +25	17 +31	44 +26	31 +9	53 +15	19 +17	66 +12	84 +12	33 +55	77 +33	55 +55	61 +31	43 +41



Name: _____

Skip an additional 2 pages in this workbook if you finish this page!

Instead of working on this book, here is a list of some things I plan on doing.

A couple of suggestions are listed. If you don't want to do these, just write 0 minutes!

Reading _____ _____ minutes

Playing outside _____ _____ minutes

I want extra time to go to bed early instead of doing homework! _____ minutes

Help with dinner _____ _____ minutes

Write a story _____ _____ minutes

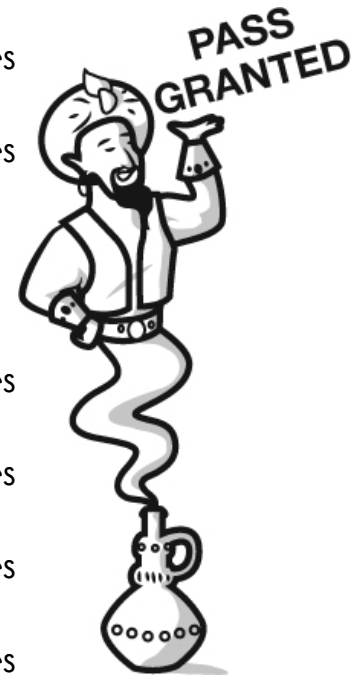
Play with my _____ _____ minutes

_____ _____ minutes

_____ _____ minutes

_____ _____ minutes

_____ _____ minutes



You don't need to fill in all of these lines unless you are THAT busy!

Last but not least, I also want to do something I don't usually do....

Maybe go up a slide backwards? _____ _____ minutes

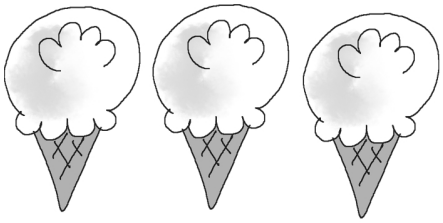
Meditate (say... what now?!?!?) _____ _____ minutes

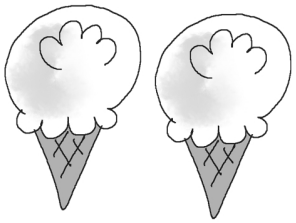
_____ _____ minutes

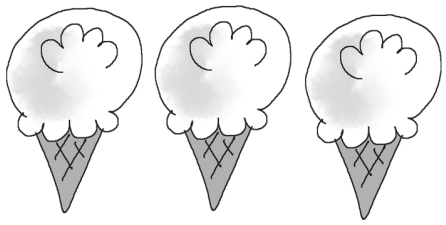
_____ _____ minutes

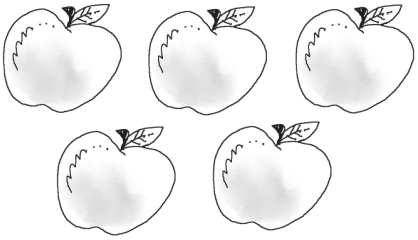
Name: _____

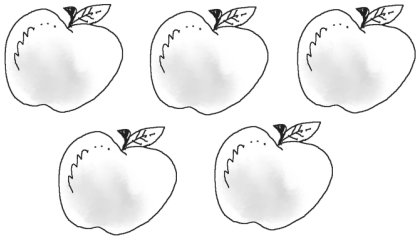
Compare and draw boxes around the groups that have the same amounts.

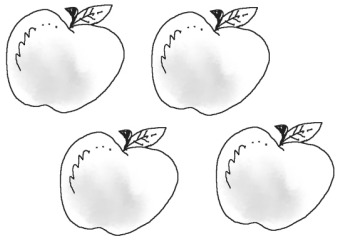


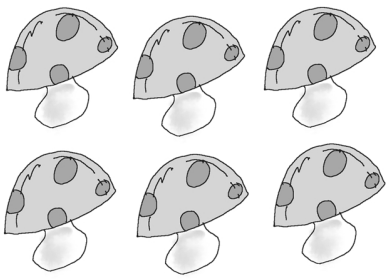


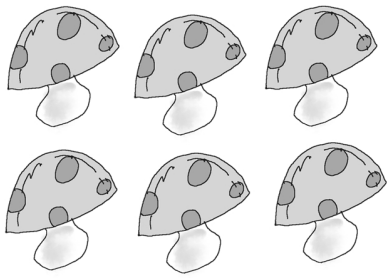


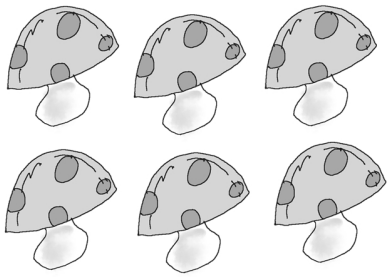


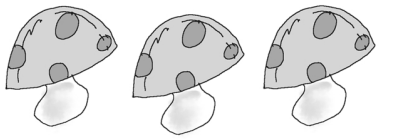


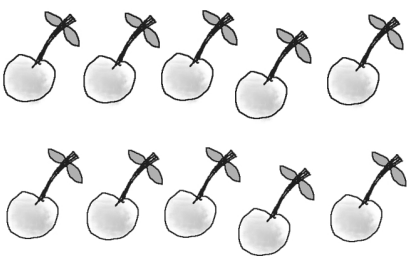


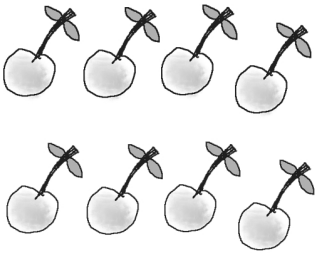


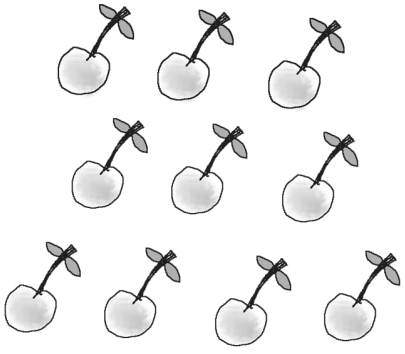












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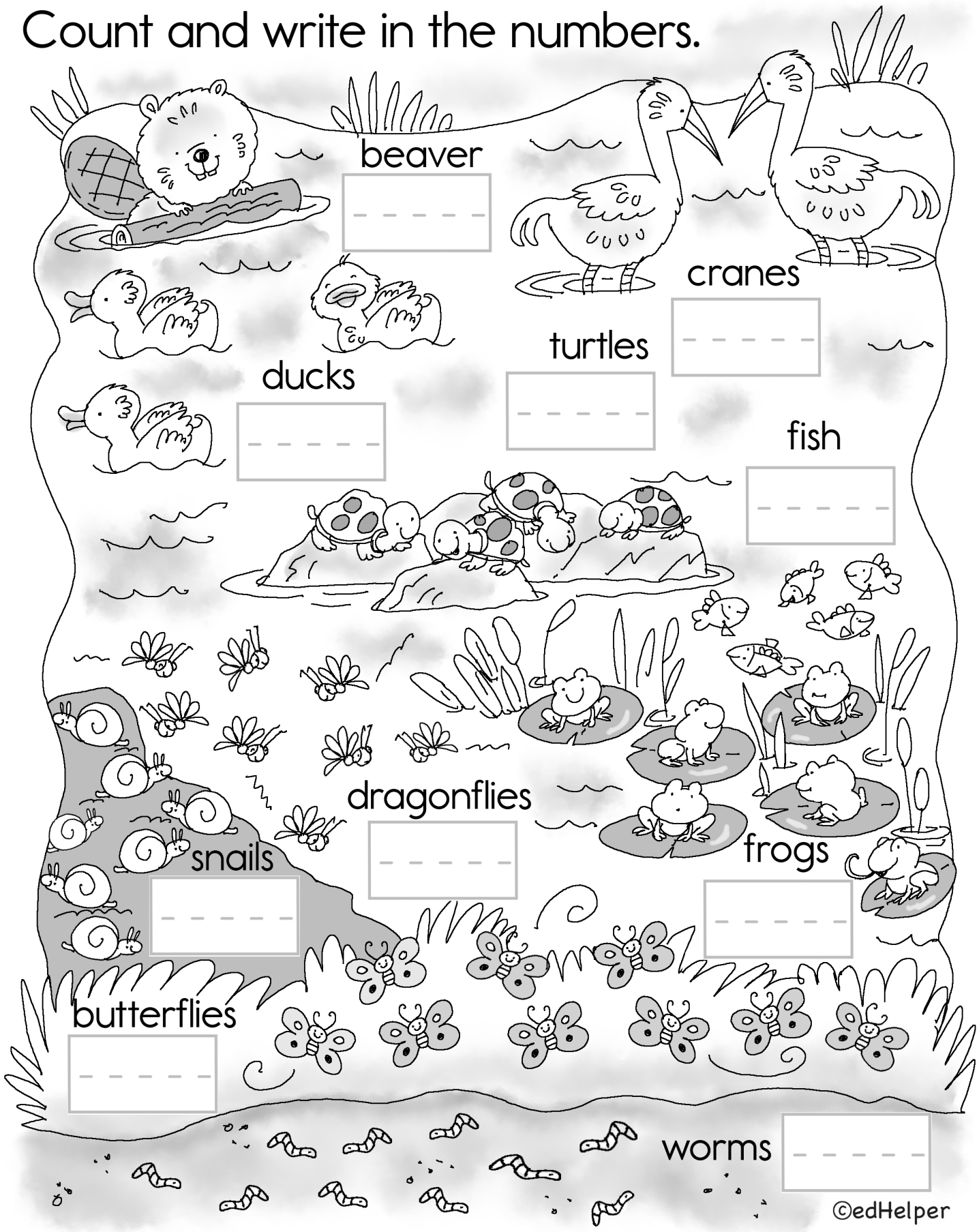
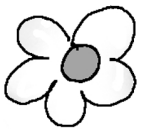
Name: _____

Count and write in the numbers.



Name: _____

Study this scarecrow. Circle the numbers.



one seven three

nine six four

ten eight nine

three eight seven

six two three

eight two four

one eight ten

nine seven five

four five six

three ten six

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Name: _____

Peter asked Alex to guess his number.
"9," said Alex.
"Lower," replied Peter.
"2," said Alex.
"Higher," replied Peter.
What should be Alex's next guess?
What are the possible numbers that could be Peter's number?

Jacob asked Robert to guess his number.
"4," said Robert.
"Higher," replied Jacob.
"7," said Robert.
"Lower," replied Jacob.
What should be Robert's next guess?
What are the possible numbers that could be Jacob's number?

At Nathan's birthday party, Nathan's mom wrote on a piece of paper how many steps to take. She didn't show the paper or the number she wrote! Then she told everyone to take some steps. If your number of steps is correct, you win. The only hint she gave was that the number is greater than 0 but less than 3.
If you were at this party, how many steps would you take?

Max is an old man. Okay, I'm joking. He is only 4 years older than Amanda. Amanda is 6 years old.
How old is Max?

Name: _____

Ms. Wilson wrote 10 welcome notes to her students. Mr. Hoke wrote 15 welcome notes to his students.
How many welcome notes were written in all?

How many more welcome notes did Mr. Hoke write than Ms. Wilson?

Pat's family had apple trees on their property. On Monday Pat picked 15 apples. On Tuesday Pat picked 13 apples. On Wednesday Pat picked 11 apples.
On which day did Pat pick the most apples?

For the Labor Day barbecue, Len grilled 15 hamburgers, 5 hot dogs, and 10 pieces of chicken.
How many pieces of chicken and hot dogs did Len grill in all?

Name: _____

place • thousands • hundreds • tens • ones • millions
hundred thousands • ten thousands • place value • standard form
expanded form • hundred millions • ten millions • billions • trillions

Circle words to the RIGHT or DOWN. Every letter is used exactly ONCE.

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

Write the words found.

PLACE _____ BILLIONS _____ _____

_____ _____ _____

_____ _____ _____

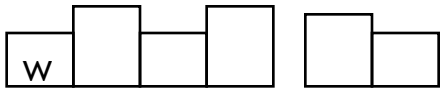
_____ _____ _____

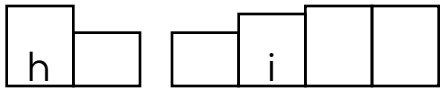
_____ _____ _____

_____ _____ _____

_____ _____ _____

Write the words for each contraction.

what's 

he'll 

12 + 23	21 + 60	42 + 30

2 1 + 1	3 1 + 2	94 - 22	69 - 25	74 - 43	63 - 51

word root **ad** can mean **to** **adhesive, addition**

Name: _____

place • thousands • hundreds • tens • ones • millions
hundred thousands • ten thousands • place value • standard form
expanded form • hundred millions • ten millions • billions • trillions

You are the teacher. If a word is spelled correctly, put a checkmark next to it and rewrite the word.
If the word is misspelled, cross off the word and put an X. Then write the correct spelling.

Name: Megan

1. thuosand		5. trillions	✓ trillions
2. tes		6. billions	
3. ~~millions~~	✗ millions	7. ines	
4. hundreds		8. plave	

Name: Robert

1. thousends		5. trillions	
2. tens		6. bilions	
3. millions		7. ones	
4. hundreds		8. plaays	

Unscramble the letters to spell a word.

calpe		stnshdoau	
liiltorns		neso	
sten		imnlsoil	
eudsnhdr		ilnlsbio	

Name: _____

FUN BREAK!

Play a game online!

edHelper.com/math-games.htm

I PLAYED ONE GAME

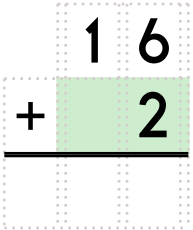
☐ (Check the box after you play.)

MY SCORE

_____

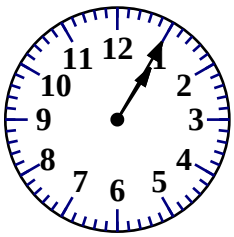
B, K, C, L, D, _____, E, N, F, O

How many?



Draw 3 small squares. Then color in some to show $\frac{1}{3}$.

What time is it?



___:___

A two-digit odd number has a 4 in the tens place. The sum of the ones and tens digits is 5. What is the number?

Name: _____

David left school early at 1:15 p.m. He had to visit his uncle who lives an hour and a half away. What time should he get to his uncle's house?

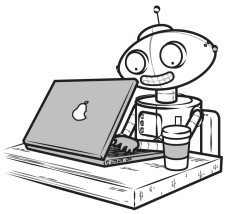
Show your work.

Name: _____

Ready for a brain teaser?
Arnold can't wait to learn how to drive.
"You know, Arnold," said his teacher, Miss Jennings, "all good drivers have had lots of practice driving."
Miss Jennings is a good driver.
What else must be true?

Mrs. Wilson is our teacher this year. Mrs. Wilson's mother, Mrs. Litkey, is also a teacher at our school.
"Class, today we have a visitor," said Mrs. Wilson.
"Hi, class. My name is John. This may be hard to believe, but Mrs. Wilson is my mother," said John.
How is John related to Mrs. Litkey?

Name: _____



Dr. Programmer is good friends with Simon.
Dr. Programmer has a playdate with Simon.
Dr. Programmer is showing Simon his computer.

Dr. Programmer typed:	The computer replied:
print ("Hello")	H e l l o
print ("My name is Doctor Programmer.")	___ _____ ___ _____ _____ _____
print ("I also like second grade.")	__ _____ _____ _____ _____

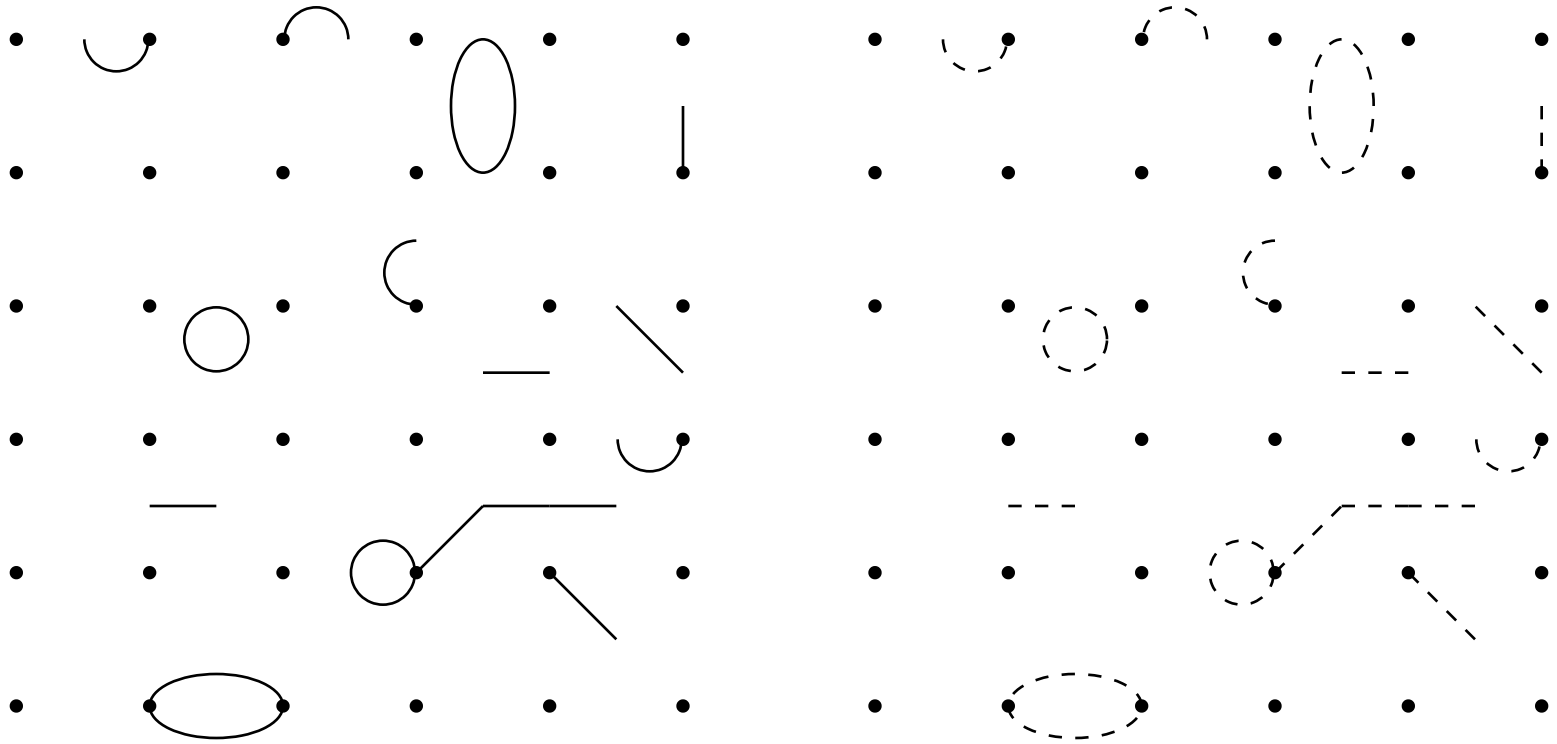
4	9	8	9	8	2	8	7	8
+ 8	- 1	- 8	+ 3	+ 5	- 2	+ 3	- 1	+ 7

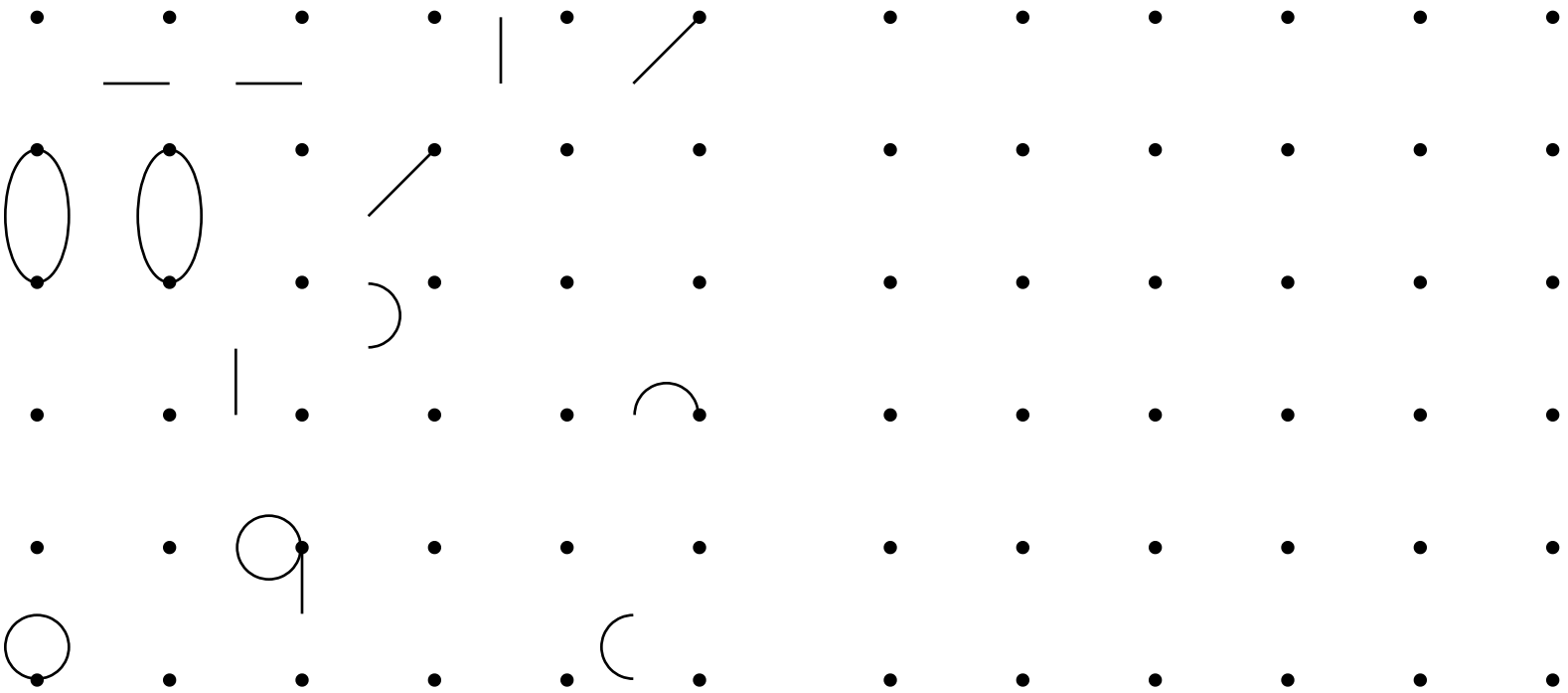
Six is an even number.
yes no

What is the largest two-digit number you can make with the numbers 4, 7, and 5?

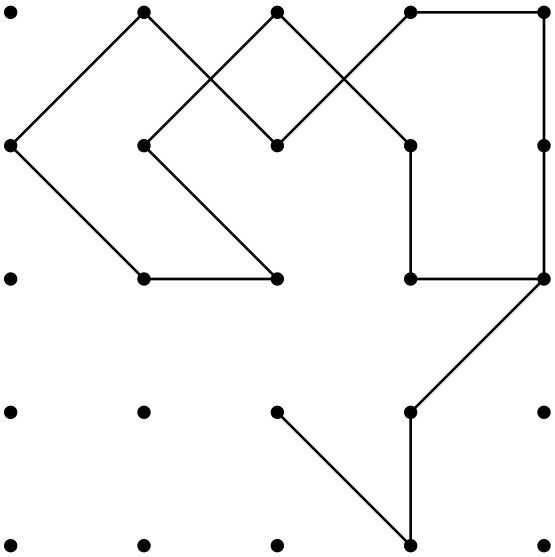
_____

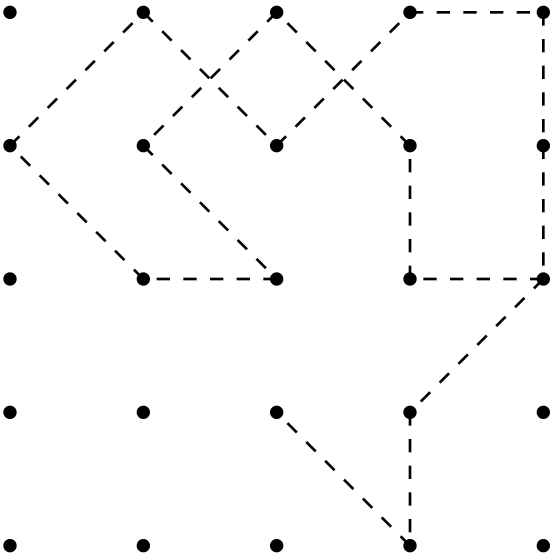
Name: _____

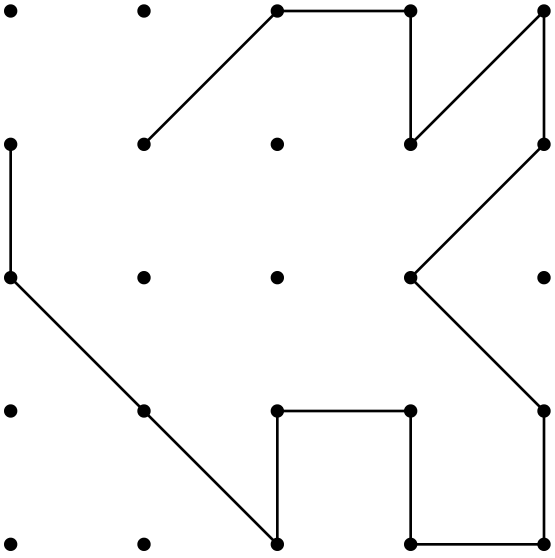


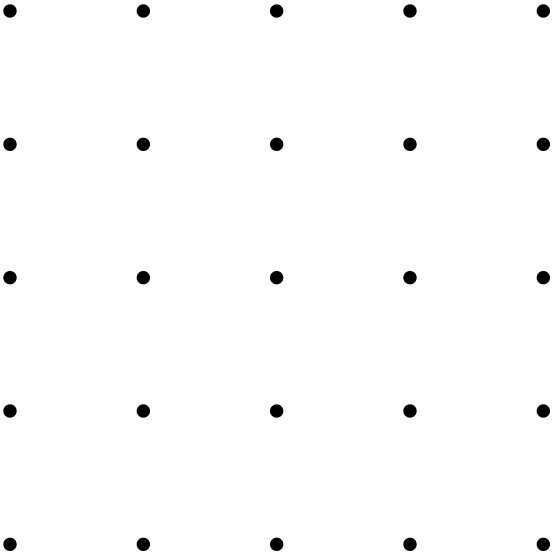


Name: _____



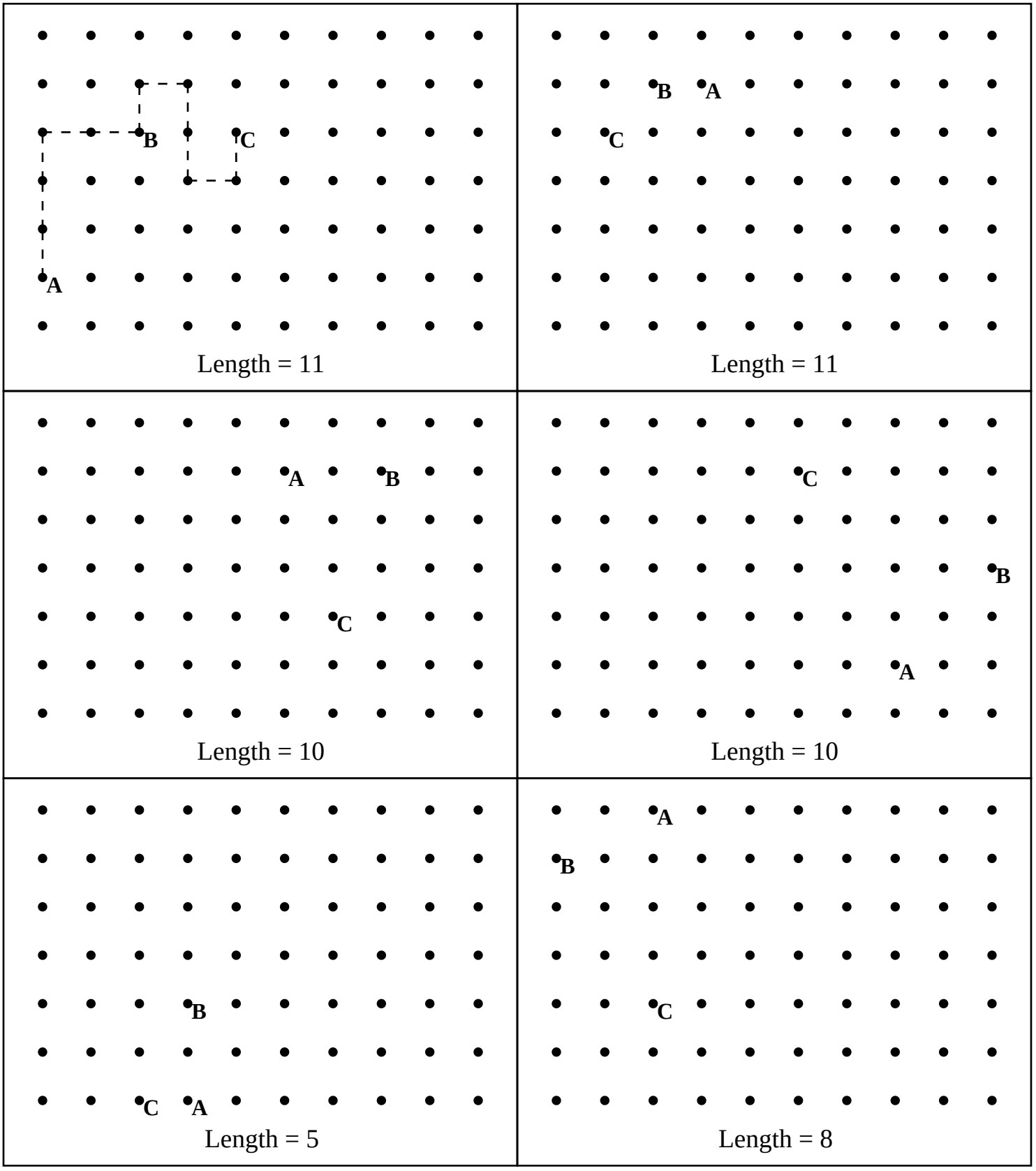






Name: _____

Draw a line from A to B with the given length. You can go horizontal or vertical. Do not cross lines. You can go to a dot only once.



Name: _____

Amy found a bird's nest. It had two little blue eggs in it. Ava found a nest with three little white eggs in it. Emily found a nest with three brown eggs in it. How many eggs did the girls find in all?

Eric has a huge teddy bear! It is forty inches tall. Adam's teddy bear is only fifteen inches tall. How much taller is Eric's teddy bear than Adam's teddy bear?

Maria picked 43 cherries Monday. She picked 38 cherries Tuesday. She needs 110 cherries for the cherry pie. How many more cherries does she need to pick?

There are five students in the lunch line. Jenna is 45 inches tall. Erin is 48 inches tall. Max is 42 inches tall. Connor is 46 inches tall. Megan is 49 inches tall. What is the difference in height between the tallest and shortest student?

Write the number that comes before.

_____ 381 _____ 294

_____ 89 _____ 90

_____ 370 _____ 164

What day comes after Tuesday?

_____

$$\begin{array}{r} 30 \\ +\ 53 \\ \hline \end{array}$$

2+90+300

100+30+8

45 - 5 = _____

Name: _____

Jenna invented a new kind of cookie. She calls it the "sprinkling chocolate chip." In each cookie, she puts precisely 3 chocolate chips. But they are not regular chocolate chips; these are chocolate chips that also have rainbow sprinkles in them. Yummy! In fact, each chocolate chip has 4 sprinkles.
"Can you make me 2 cookies?" asked her mom.
"Sure!" she said. When she is done making the 2 cookies, how many sprinkles will there be in all the cookies?

Show your work.

Name: _____

Jenna couldn't believe it. She made her first app and posted it to the app store. She texted her friend. "Can you download my new app?" she asked. She had worked on it during the entire summer, including at her coding camp.

Her friend did download it, and before the end of the day she had ten downloads. She was one happy camper!

"Wake up! Wake up!" called her brother. "Your app is up to a hundred downloads!"

She woke up fast. "Wow," she replied. "Another zero for my download count."

"Huh?" asked her confused brother.

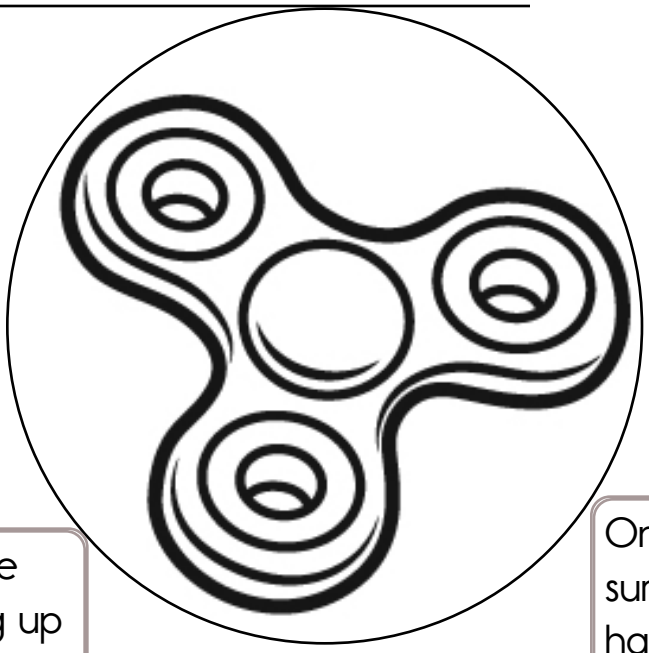
"It went from ten to a hundred, silly."

Jenna got her phone, but of course she had forgotten to plug it in, so it was out of power. So she went back to sleep. And guess what? She dreamt of the downloads increasing! In her dream there were two more zeros added to the end of the number of downloads.

How many downloads was she up to in her dream?

Show your work.

Name: _____



How many times do you need to spin?

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

Dan made 10 Meet the Teacher signs to hang up in school. The next morning 4 of them had fallen down. How many signs were still hanging the next morning?

Jackson has 5 new pants for the start of school and 10 new shirts for the start of school. How many more shirts does he have than pants?

Felix picked 14 apples from the apple tree. Travis picked 10 apples from the apple tree. How many apples did they pick in all?

It was Cheese Pizza Day. Mr. Martin's class ordered 10 cheese pizzas. Mrs. Horan's class ordered 6 cheese pizzas. How many more cheese pizzas did Mr. Martin's class order than Mrs. Horan's class?

It was Teddy Bear Day. Lola counted 9 teddy bears on her bed. She counted 8 teddy bears on her shelf. How many teddy bears did Lola count in all?

On the last day of summer vacation, Trent had friends to his house. They swam 2 hours in the morning and 4 hours in the afternoon. How many hours did they swim in all?

It was Checkers Day. Ed played 4 games of checkers with his mother and 6 games of checkers with his father. How many games of checkers did Ed play in all?

Name: _____

Spin the fidget spinner again until you finish THIS page. I needed to spin _____ time(s) to finish.

There were 14 returning teachers at Jake's school. There were 6 new teachers at Jake's school. How many teachers were at Jake's school in all?

Martin put 12 regular pencils in his new backpack for school. Martin put 12 colored pencils in his new backpack for school. How many pencils did Martin put in his backpack in all?

Mrs. Collins's class made 14 Grandparents Day cards. Mr. Gerald's class made 11 Grandparents Day cards. How many Grandparents Day cards were made in all?

Connor poured 9 cups of apple cider. Alan poured 6 cups of apple cider. How many more cups of apple cider did Connor pour than Alan?

Millie made 24 cupcakes for the first day of school. Nora made 14 cookies for the first day of school. How many more cupcakes were there than cookies?

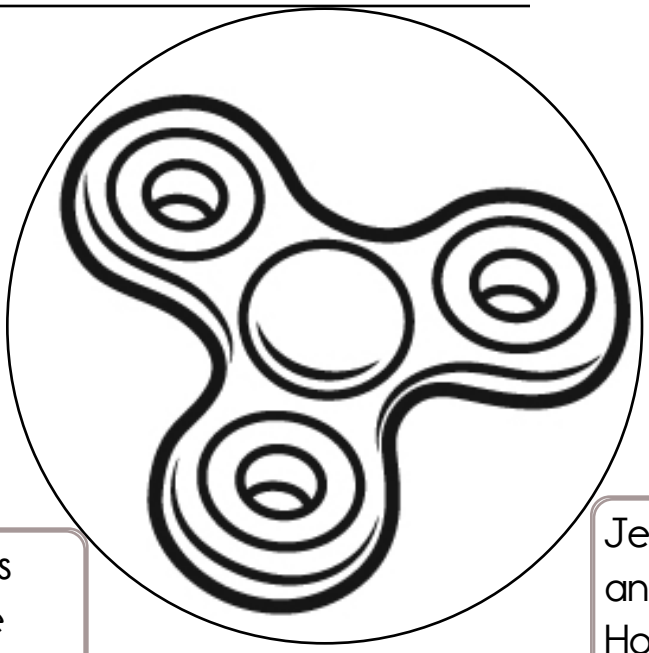
Kerry had 24 crayons for the first day of school, but she only had 12 markers for the first day of school. How many more crayons did Kerry have than markers?

It was National Salami Day. Dad made 6 salami sandwiches on wheat bread and 8 salami sandwiches on white bread. How many salami sandwiches did Dad make in all?

Charlie planted mums for 40 minutes in the morning. He planted mums for 20 minutes in the afternoon. For how many more minutes did Charlie plant in the morning than in the afternoon?

John made 20 cookies for the Labor Day celebration. Betsy made 30 cookies for the Labor Day celebration. How many cookies were made in all?

Name: _____



How many times do you need to spin?

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

Bob had 4 new pencils and 1 new pen for the first day of school. How many more pencils did Bob have than pens?

Jan had 5 pens and 3 pencils. How many pens and pencils did she have in all?

Sid took out 4 library books about elephants. Cathy took out 4 library books about elephants, too. How many books about elephants were taken out in all?

It was Teddy Bear Day. Holly had 4 teddy bears on her dresser. She had 1 teddy bear on her bed. How many more teddy bears were on Holly's dresser than on her bed?

It was Teddy Bear Day. Sue had 3 teddy bears on her bed. Sue had 6 teddy bears on her shelf. How many teddy bears did Sue have in all?

Jim ate 2 hot dogs and 1 hamburger. How many things did Jim eat in all?

Jeb had 9 red apples and 4 green apples. How many more red apples than green apples did Jeb have?

It was Make a Hat Day. Josh made 1 brown hat and 2 black hats. How many hats did Josh make in all?

Mark walked for 10 minutes on the first day of school. He walked for 5 minutes on the second day of school. How many more minutes did Mark walk on the first day than on the second?

Name: _____

FUN BREAK!

Play a game online!

edHelper.com/math-games.htm

I PLAYED ONE GAME

☐ (Check the box after you play.)

MY SCORE

_____

18 = ____ + 10

19 = ____ + 10

14 = ____ + 10

$$\begin{array}{r} 5\ 5 \\ +\ \ 4 \\ \hline \end{array}$$

19, 20, 21, ____, ____,

____

2, 1, 8, 1, 2, 1, 8, 1, 2, 1,

8, 1, 2, 1, 8, _____, 2

Circle the odd numbers.

8 37 51

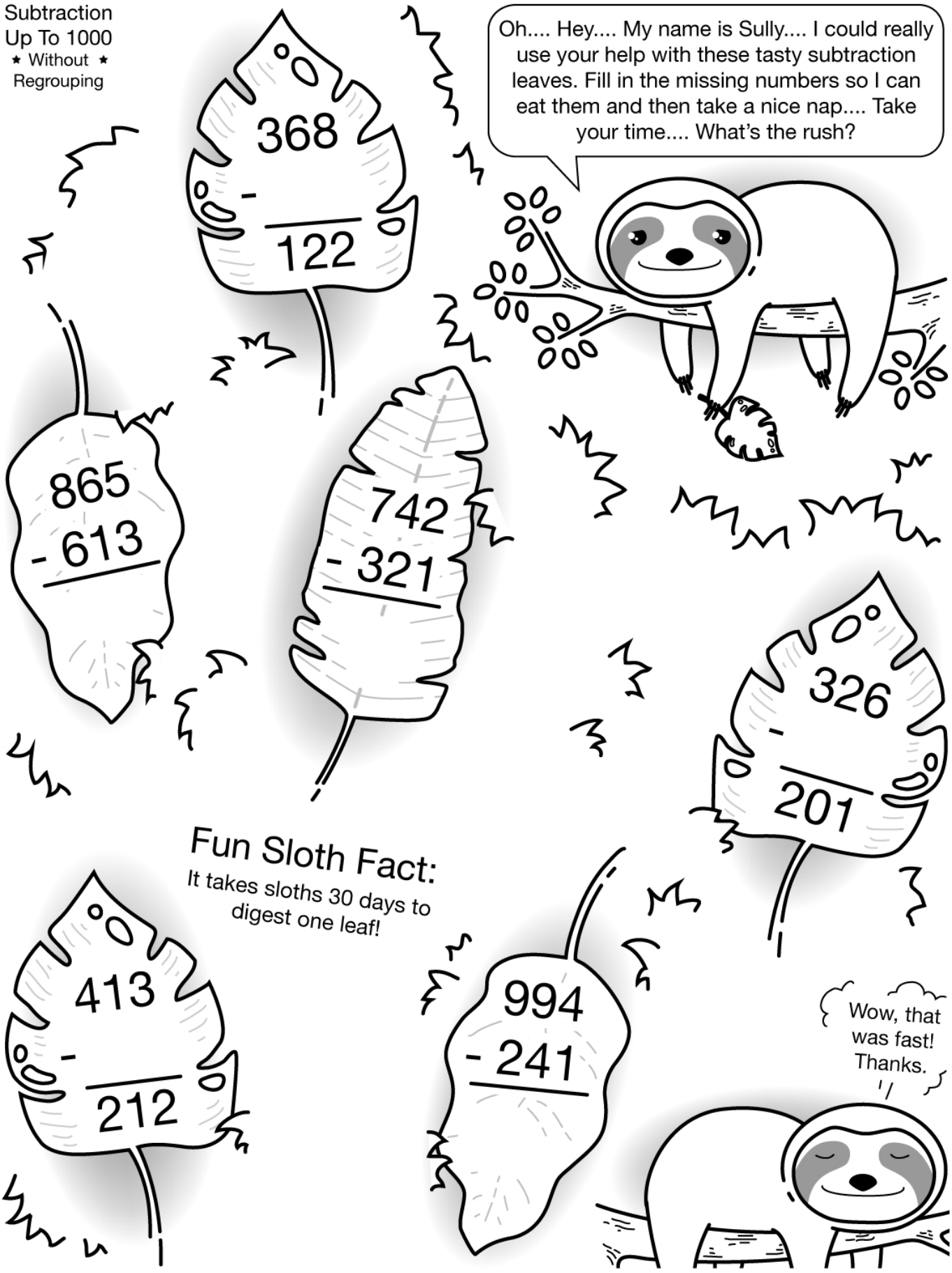
4 25 89

23 516 392

How many?

Name: _____

Subtraction
Up To 1000
★ Without ★
Regrouping



Fun Sloth Fact:
It takes sloths 30 days to digest one leaf!

Name: _____

Subtraction
Up To 1000
★ Regrouping ★
in the Ones
Place

964
-217

473
-165

582
-314

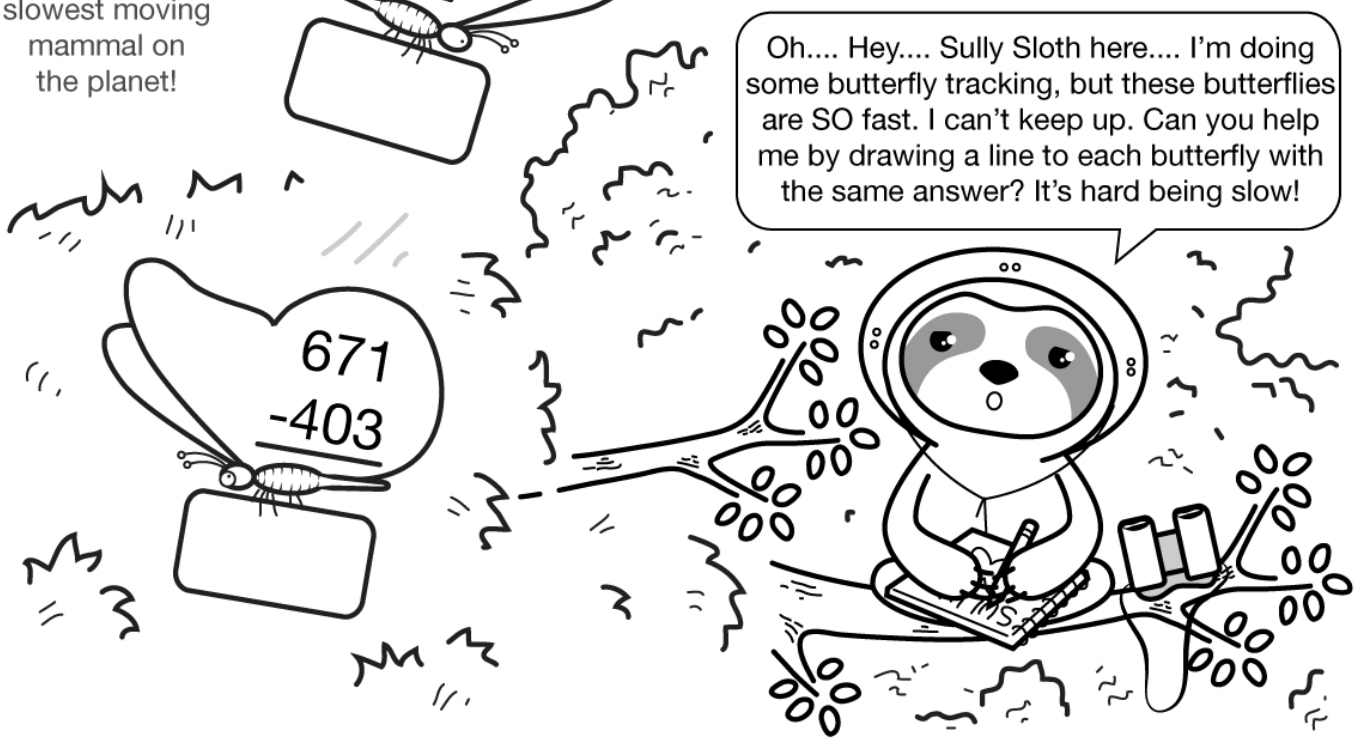
896
-149

727
-419

671
-403

Fun Sloth Fact:

Sloths are the slowest moving mammal on the planet!



Name: _____

Hannah made 47 charm bracelets to give out at her grandma's nursing home. Wow! She has been busy! She made orange, green, and yellow bracelets.
She made a total of 34 orange bracelets.
She almost made the same amount of green and yellow bracelets, but she actually ended up making 5 more yellow ones than green ones.
How many bracelets did she make for each color?

Hannah made 34 orange charm bracelets.

Hannah made _____ green charm bracelets.

Hannah made _____ yellow charm bracelets.

What is the closest number you can write to 651 using the digits 4, 3, and 8?
What is the difference between 651 and your number?

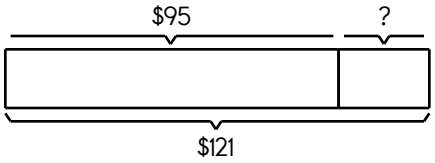
Pam made 88 charm bracelets to give out at her grandma's nursing home. Wow! She has been busy! She made red, yellow, and blue bracelets.
She made a total of 47 red bracelets.
She almost made the same amount of yellow and blue bracelets, but she actually ended up making 5 more blue ones than yellow ones.
How many bracelets did she make for each color?

Pam made 47 red charm bracelets.

Pam made 18 yellow charm bracelets.

Pam made _____ blue charm bracelets.

Amanda has $95. Mary has $121. How much more does Mary have?



Name: _____

Emily and April are playing Follow the Math Rule with 3 rounds of play. Emily starts with 60 marbles and April starts with 0. Emily and April each take a card that tells them what to do.

In Round 1 Emily gives April 42 marbles and April gives 35 marbles back.

In Round 2 Emily gives April 52 marbles and April gives 45 marbles back.

Round 3. Emily gives April 10 marbles. April gives back 3 marbles.

Finish this sentence. In each round April needs to give back

Hint: You count how many you get, subtract a number, and give back marbles.

Emma and Gavin are building a pond next to their houses. This isn't a real pond; it is a virtual pond in a game on their phones. But it IS fun!
Emma added 9 guppies into the pond.
Gavin put 25 goldfish into the pond.
They saw someone else put some fish into the pond. They don't even know who that person is!
The pond indicator says the pond now has 51 fish in it. How many fish did that person add?

That mystery person in this virtual game added

_____ fish into their pond.

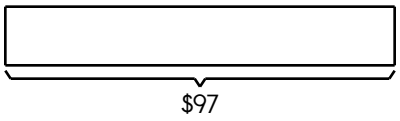
_____ + 165 = 585

607 + _____ = 846

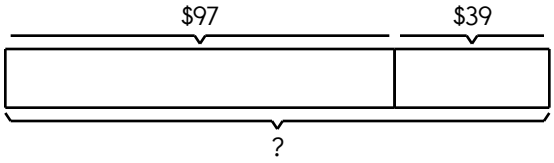
_____ + 798 = 982

Amanda has $97. Rosa has $39 more than Amanda. How much does Rosa have?

Amanda's savings



Rosa's savings:



_____ ◯ _____ = _____

Rosa has $ _____ .

Name: _____

Eric has one dime, three nickels, and two pennies. Jack has three dimes and twenty-five pennies. How much more money does Jack have than Eric?

There was a picnic at the beach on Sandcastle Day. Everyone could have a hot dog, a hamburger, or a corn dog. Seven people chose corn dogs, nine chose hot dogs, and five chose hamburgers. What number is the mode?

There are eight cages. There are two puppies in each cage. How many puppies are there in all?

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.

___ ___ ___ ___ 39 hundreds	___ ___ two tens	___ ___ ___ ___ 26 hundreds
___ ___ ___ three hundreds and seven tens	___ ___ ___ five hundreds and four tens	___ ___ ___ ___ 86 hundreds
___ ___ ___ ___ six thousands and two tens	___ ___ ___ ___ ___ 72 thousands	___ ___ ___ ___ four thousands and three ones
___ ___ seven tens	___ ___ 57 ones	___ ___ ___ ___ 12 hundreds
___ ___ ___ ___ ___ eight ten-thousands and eight hundreds	___ ___ ___ ___ ___ nine ten-thousands and five ones	___ ___ ___ 44 tens

Name: _____

Find 2 equations hidden in each box. Good luck!

6 + 5

5

8 + 4

11

12

13

Write 2 equations: _____ _____

3

6 - 3

0

8 - 8

7 - 6

9

Write 2 equations: _____ _____

5 - 4

9 - 1

1

0

7 - 2

8

Write 2 equations: _____ _____

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.

__ __ six tens	__ one ten - four ones	__ __ the number ten greater than 17
__ __ three tens - nine ones	__ __ five tens	__ __ __ 67 tens
__ __ __ __ 90 hundreds	__ __ the number ten greater than 27	__ __ __ 37 tens
__ __ __ __ 20 hundreds	__ __ five tens - seven ones	__ __ seven tens
__ __ the number ten greater than 64	__ __ eight tens	__ __ the number ten greater than 64

Name: _____

Use any of these digits. Cross off a digit after you use it.

1 3 7 7 6

What is the smallest 3-digit even number that you can make?

$$\begin{array}{r} 58 \\ -\ 8 \\ \hline \end{array}$$

How many dots on the bug?

Write the numbers.

seven ___

fifteen___

eighteen___

thirty-nine plus six equals

twenty-four minus six equals

$$\begin{array}{r} 11 \\ +\ 10 \\ \hline \end{array}$$

How much is this?

5 + 1 = ___

15 + 1 = ___

D, F, H, J, L, _____, P, R, T

Name: _____

FUN BREAK!

Play a game online!

edHelper.com/math-games.htm

I PLAYED ONE GAME

☐ (Check the box after you play.)

MY SCORE

_____

19, ___, 21, ___, 23,

___, ___, ___, 27, 28,

___, 30

8 - 3 = ___

3 + ___ = 8

seven plus six equals

Ava has 6 squishies. She collects them! She has 2 red ones. The rest are yellow. How many squishies are yellow?

59, _____, 69, 74, 79, 84

$$\begin{array}{r} 1 \\ +\ 3 \\ \hline \end{array}$$

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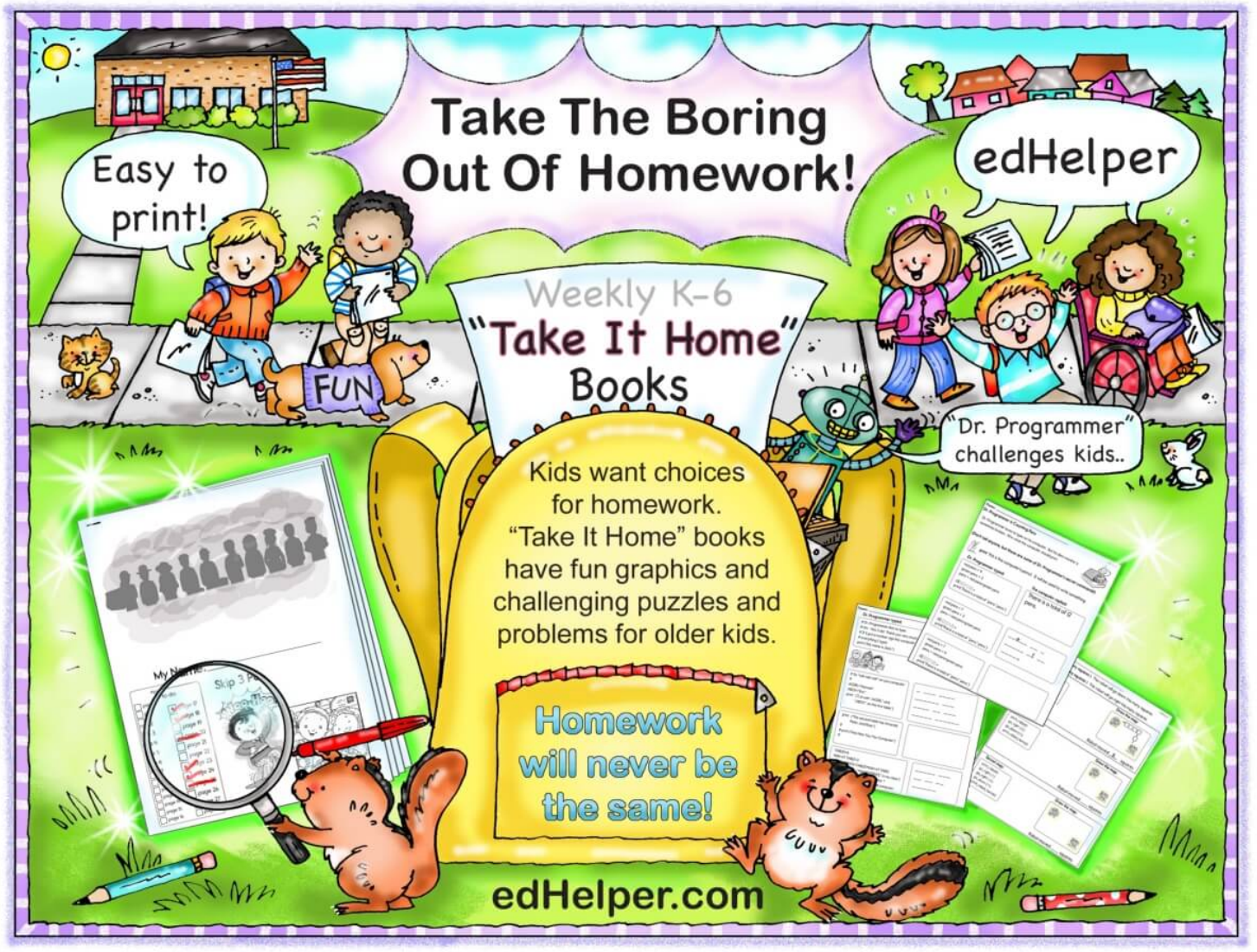
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