

17

+11

-4

+45

-31

-14

28

+6

+4

+1

-33

-6

+9

+3

-35

-2

+24

+5

-12

-8

+62

-13

+1

+7

61

-9

Name: _____

Pick 26 to do:

Skip 2 pages.

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Challenge Math

Book 30

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: 21.8, 12.7, or 23.7.

The other three numbers have to all be DIFFERENT and must be from these: 8.9, 9.4, 1.4, 6.7, 5.7, or 2.4.

1.4

1.4

23.7

5.7

38.3

21.8

35.6

6.7

40.7

1.4

25.4

9.4

5.7

8.9

46.8

45.5

36.4

30.7

odd

8.9

less than 21.8

odd

less than 12.7

edHelper.com

Fun Math

☐

I did page 1

☐I decided to skip this page
edHelper

Name: _____

Get a fidget spinner! Spin it.

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

$$(12 + 3) - 1$$

$$18 \div \underline{\quad} = 6$$

The number 44 is more than the number 7 by how much?

How many tens are in the number 80?

$$\text{double } 40 =$$

$$\underline{\quad} \div 12 = 3$$

Find the product of 7 and 4.

How many minutes are there from 4:00 p.m. until 4:30 p.m.?

Write the number that is one ten less than 6,461.

$$\text{triple } 40 =$$

How many hundreds are in the number 240,000?

Round 73 to the nearest ten.

Write the number that has exactly 2 millions.

What is the sum of 10 and 232?

What is 17 less than 999?

Name: _____

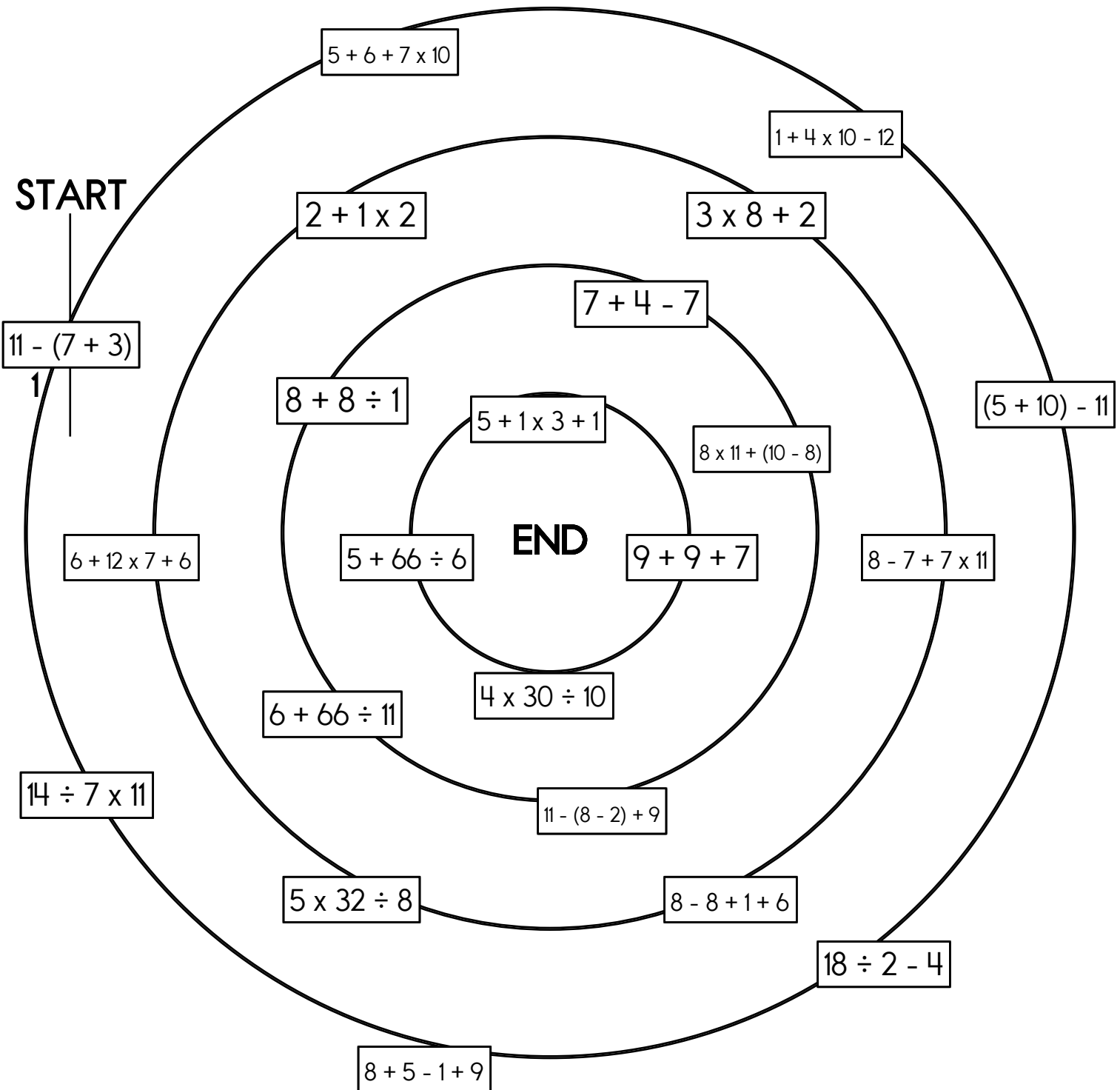
Draw a line from START to END.

~~+~~
4

16

14

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



Name: _____

Mrs. Jenkins's class wanted a class pet. Most of the boys wanted a dog, but Mrs. Jenkins was fairly certain the principal wouldn't like that idea. After some research and a vote, the class decided to get a fish tank. They started with 5 goldfish. Each fish needed to eat 10 pellets of food per day. Mrs. Jenkins wanted everyone in the class to have a chance to help care for the fish. She decided to choose 2 zookeepers each week. It would be their jobs to feed the fish, change the water, and make sure the counter around the tank was clean and dry. If they split the job evenly, how many pellets will each zookeeper get to give the fish each day?

How many pellets will each zookeeper feed the fish over the course of a school week?

Each bottle of fish food contains 100 pellets and costs \$4.00. If the zookeepers feed the fish during the week and Mrs. Jenkins feeds them on the weekend, how long will a bottle of fish food last?

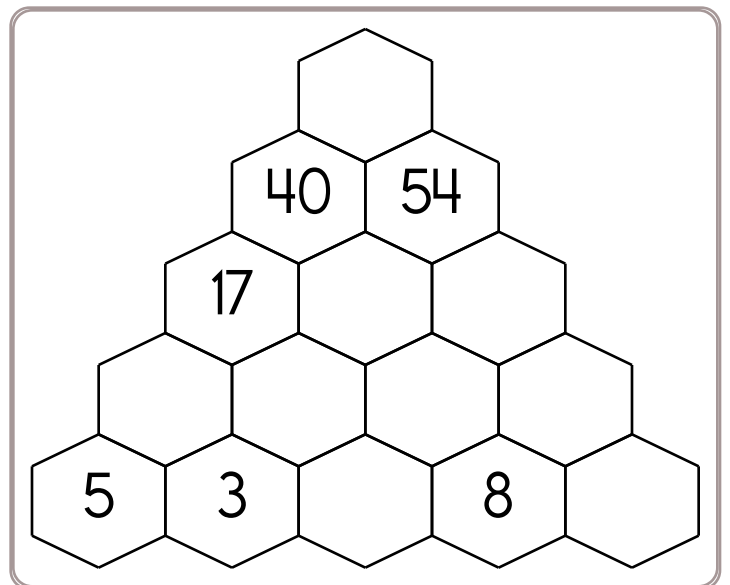
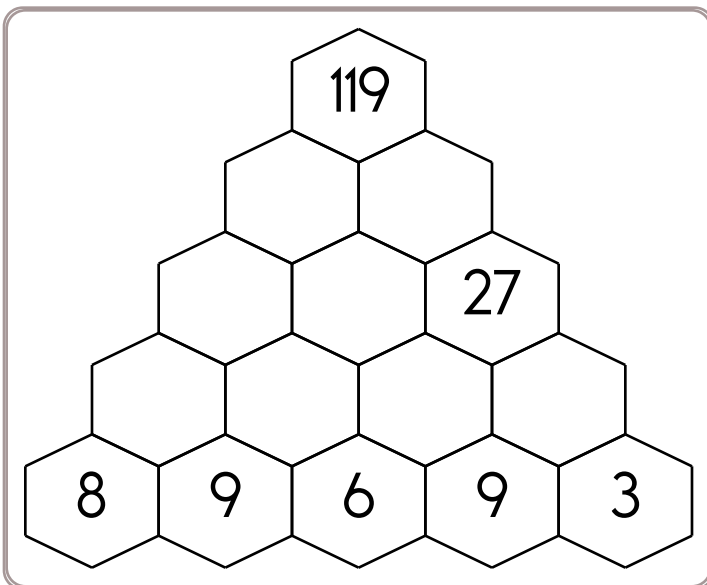
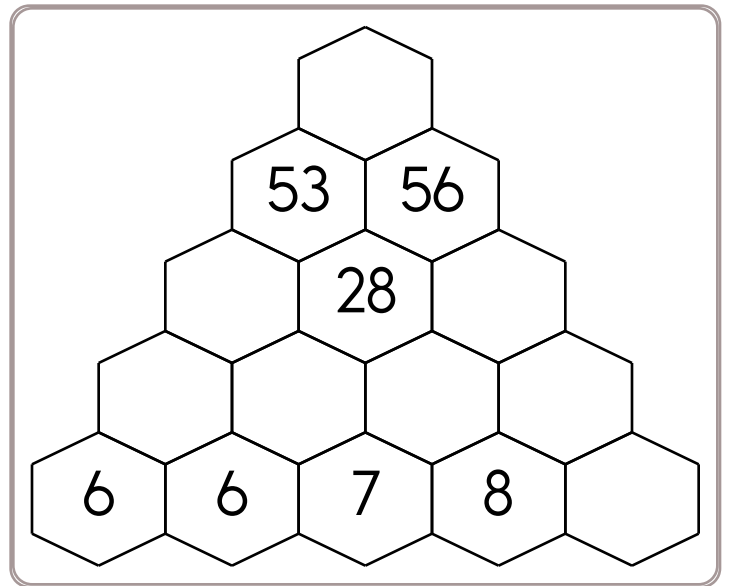
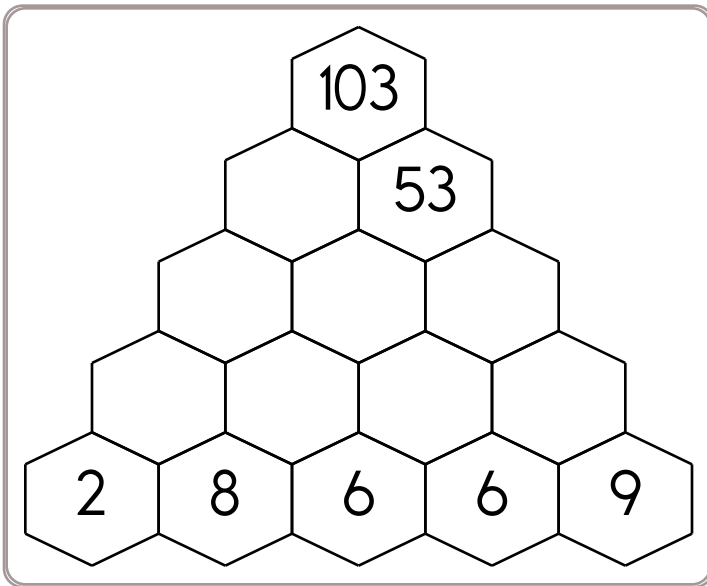
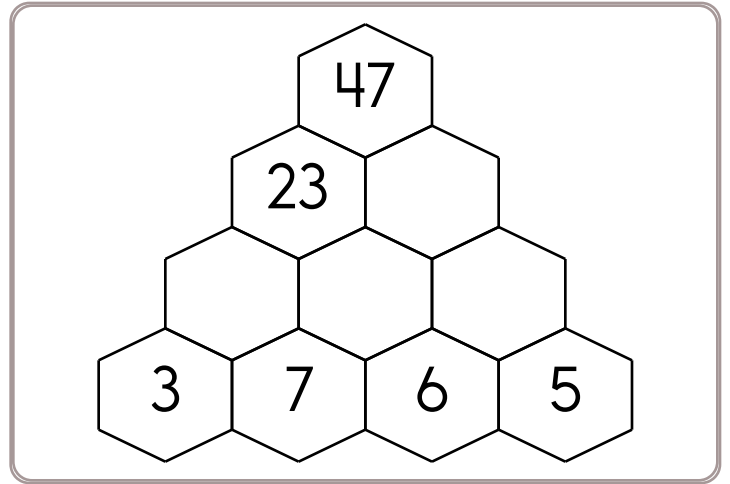
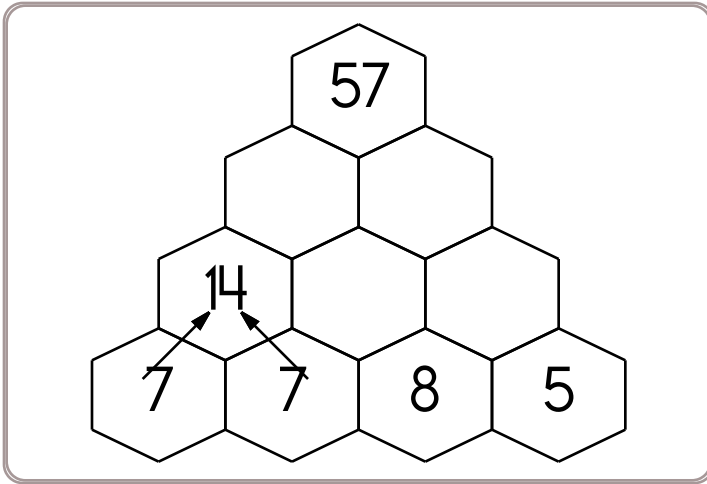
Name: _____

Rosa has a new job working at Pizzeria Magpie. She loves it, but she can only work three hours on Monday, three hours on Tuesday, and seven hours on Saturday. The pizzeria will give her a check every two weeks. She will be paid \$13.80 per hour. How much will her first paycheck be?

Ava rode an exercise upright bike for 22 minutes. Her average speed was 10.1 mph. How far did she ride?

Name: _____

Fill in the blanks by adding the two numbers below each hexagon.



Name: _____

+		80			
			161		153
	___ + ___	___ + <u>80</u>	___ + ___	___ + ___	___ + ___
		111			91
	___ + ___	___ + <u>80</u>	___ + ___	___ + ___	___ + ___
	121		151	169	
	___ + ___	___ + <u>80</u>	___ + ___	___ + ___	___ + ___
25		105	93		
	<u>25</u> + ___	<u>25</u> + <u>80</u>	<u>25</u> + ___	<u>25</u> + ___	<u>25</u> + ___
97				183	
	<u>97</u> + ___	<u>97</u> + <u>80</u>	<u>97</u> + ___	<u>97</u> + ___	<u>97</u> + ___

How many feet are in 9 yards? _____ feet		Holly wrote that 98 divided by 9 has a remainder of 8. For her homework, she needs to find four other numbers that when divided by 9 will have a remainder of 8. Help her with her homework.
Connor needed a new light bulb for his lamp. He could not read in the dark! He could buy 4 bulbs for \$8.12. What was the cost of one bulb?		
72 ÷ 12 =	What is the homophone of this word? flu _____	1 cm = 10 mm 20 cm = _____ mm

Name: _____

Complete each pattern, using the same rule. Write what the rule is.

F, I, H, J, J, K, L, L, ____, M

J, F, L, G, N, H, P, I, ____, ____, T, K

Complete each pattern. Write what the rule is.

168	154	140
126		98
84	70	
42	28	

Name: _____

Jacob's report on the National Day of Prayer is due tomorrow and he is just starting it now. It is 10:23 a.m. If it takes him 2 hours and 14 minutes to do the research and 1 hour and 38 minutes to write the paper, what time will he finish it?

List three items that could be modeled using a sphere. The items could be from your classroom, home, workshop, or anywhere else.

Hannah lifted 59.1 kg on her first lift and 57.3 kg on her second lift. What was the average mass she lifted?

You are offered one of two "black boxes" that can increase or decrease the length of any object. One box operates in multiples of two and the other operates in multiples of eight. Which would be the better choice? Explain.

At the bookstore, Nathan bought three books about Anne Bradstreet and colonial times. The books cost \$4.52, \$8.76, and \$10.67. He gave the cashier \$30. How much change should Nathan receive?

Megan set up her expandomatic and entered the number 9,758,867,622. The awesome expandomatic printed out the number in expanded notation. What did it print?

Kevin averaged two numbers together to get 35. If one of the numbers is 37, what is the other number?

A particular pail has a capacity of 0.35 kg of sand. How many pails full of sand would it take to make a sandcastle containing 85 kg of sand?

The pirates took $7\frac{1}{2}$ bars of gold and divided them up between 4 groups of pirates. How much of a bar of gold did each group get?

Name: _____

In basketball a free throw (f) is worth 1 point, a field goal (g) is worth 2 points, and a three-point shot (t) is worth, well—three points! Write an expression using the letters given (and no other letters or numbers) that could be used to represent the total (T) number of points scored in a game by a player.

The average final shoot height of a species of bamboo under study at NOW-GROW, Inc. was given by the product of the growth rate (r) in inches per day and the length of time in days (t). If the species had a growth rate of 12.7 inches per day and the growth period lasted 32 days, how tall (in feet and inches) was an average shoot?

Adam ate $2\frac{1}{2}$ pieces of pumpkin pie, and his brother ate $2\frac{1}{3}$ pieces. If there were 8 pieces to start with, how many were left for anyone else to eat?

Hannah got her test score back in geometry class. She answered 81% of the 40 questions correctly. How many questions did she get correct? You may have to round your answer to the nearest whole number.

Max saw that there were $2\frac{1}{4}$ cakes left after the party. He gave each of his three cousins an equal share of the remaining cake. How much of the remaining cake did each cousin receive?

A company in Littleville receives water in bulk tanks and repackages it into bottles for resale. If a bulk tank contains 9,000 liters of water, how many 500-ml bottles can be produced?

Wendy had a bucket of axle grease that contained 5 lb. 5 oz. of grease. She scooped out 2 lb. 11 oz. of grease. How much was left in the bucket?

Kevin made a one-time deposit of \$585 into a bank account. If the bank pays 6.12% simple interest, how much will the deposit be worth in 5 years?

Name: _____

Justin and his brother saved pennies until they had enough to buy something they both wanted. They needed some parts to fix their bikes so they decided it was time to get out the pennies. If Justin had 389 pennies, and his brother had 463 pennies, how many pennies did they have altogether?

Jason was writing a report on the history of the National Day of Prayer. His search engine listed 10,575 websites with information about the day. If it takes him an average of 4 minutes to look at the information in each website, how long would it take him to look at 109 of these 10,575 websites? (Express your answer in hours and minutes.)

It is a very good toad season. Toads are everywhere! You decide to go out at night and count how many are in the front yard. Last night you counted nineteen. Tonight you find twenty-three. How many more are there tonight compared to last night?

There were two amusement parks. It took about 1 hour and 10 minutes to drive to one of them and 1 hour and 35 minutes to drive to the other. How much time would be saved by driving to the closer amusement park?

At the end of the Monopoly game, Max counted his money. He had two \$500 bills, three \$100 bills, five \$50 bills, nine \$20 bills, six \$10 bills, fourteen \$5 bills, and 4 \$1 bills. How much cash did Max have in all?

Beatrix Potter was born in 1866. Write the prime factorization of the year of her birth.

Mr. and Mrs. Miller donated \$23.75 to the Red Cross every month last year. What was the total of their donations for the year?

A Russian coin, an English coin, and an American coin were flipped in sequence. How many outcomes are possible?

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Name: _____

If you predict that 4 coin tosses will result in 4 heads in a row, what is the probability that you are correct?

A rectangular sign advertising the Life Evaluation Conference was put up near the conference hotel. It had a length of 25 feet and a perimeter of 102 feet. What was the sign's width?

A roller coaster at Walt Disney World takes only two minutes and twelve seconds from launch to the end. If the average speed is twenty-two mph, approximately what is the length of the ride in feet?

Mrs. Thompson likes licorice tea. She can buy one box of licorice tea for \$4.48. She can buy two boxes of tea for \$8. How much will she save if she buys two boxes at the same time?

The ratio of craft vendors to food vendors at the outdoor festival was 3 to 6. There were a total of 99 craft and food vendors at the festival. How many were food vendors? You may have to round your answer to the nearest whole number.

The tap dance recital was scheduled to start at the outdoor stage at 3:45 p.m. Rain delayed the performance until 4:40 p.m. What fraction of an hour did rain delay the recital?

According to a survey, 82% of adults in the United States pray at least once a week. Out of a group of 5,000 adults, approximately how many pray at least once a week?

Adam used 556 ounces of sugar to make cotton candy at the fair this year. How many pounds is 556 ounces?

A 2-pound can of coffee will make how many cups of coffee if each cup requires $\frac{1}{15}$ of an ounce of coffee?

Name: _____

77	-48		-15		$-1\frac{1}{4}$	
						$+\frac{4}{6}$

	$-\frac{3}{4}$	$23\frac{1}{6}$	$+\frac{3}{4}$		+9	
--	----------------	-----------------	----------------	--	----	--

$-\frac{5}{6}$

	$-7\frac{5}{6}$		+34		+6		+60	$113\frac{3}{4}$
--	-----------------	--	-----	--	----	--	-----	------------------

10 x 8 =	Which is the largest? $97.7 \div 9.2$ $97.7 \div 9.1$ $97.7 \div 9.3$	$\begin{array}{r} 48 \\ - 20 \\ \hline \end{array}$
72 ÷ 8 =		

Can 328 be evenly divided by 3? Circle: 328 is evenly divisible by 3 328 is NOT evenly divisible by 3	8 x 4 =	$\begin{array}{r} 915 \\ - 363 \\ \hline \end{array}$
	$\begin{array}{r} 214 \\ + 227 \\ \hline \end{array}$	



☐

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Name: _____



$$24 \div 12 + 2$$

13, 18, 24, 31, _____,
48, 58, 69, 81, 94, 108

Round 15,305 to the
nearest thousand.

A toy car can go 4 mph.
How long would it take to
go 13 miles?

Know how many inches in
a foot? Okay, smarty pants,
how many inches in 3 feet?

How many centimeters in
2.8 meters?

W, L, U, K, S, J, Q, I,
O, H, _____, G

Draw a number line
with 0, $\frac{1}{2}$, and 1. Show
where $\frac{7}{10}$ would go. Is
 $\frac{7}{10}$ closer to 0, $\frac{1}{2}$, or 1?

It was 75 degrees outside.
What would the
temperature be if it got 24
degrees colder?

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Name: _____

Round 51,311 to the nearest hundred.

$$11 + 4 + 8 - 10$$

How many meters are there in 73 kilometers?

$\frac{1}{5}$, (1), (5),
_____, (125), (625),
(3,125), (15,625),
(78,125)

9, 9, 9, 9, 4, 4, 4, 4, 9,
9, 9, 9, 4, 4, 4, 4, 4,
4, _____, 9, 9, 9, 9, 4,
4, 4, 4, 4

Estimate quickly the difference.
 $7,870 - 1,240$

$$9\frac{1}{4} + 3\frac{1}{4}$$

J, M, _____, O, L, Q,
M, S, N, U

What 6 coins add up to 31 cents?

How much money is 1 quarter, 1 dime, 6 nickels, and 1 penny?

$$5 \div \frac{1}{4}$$

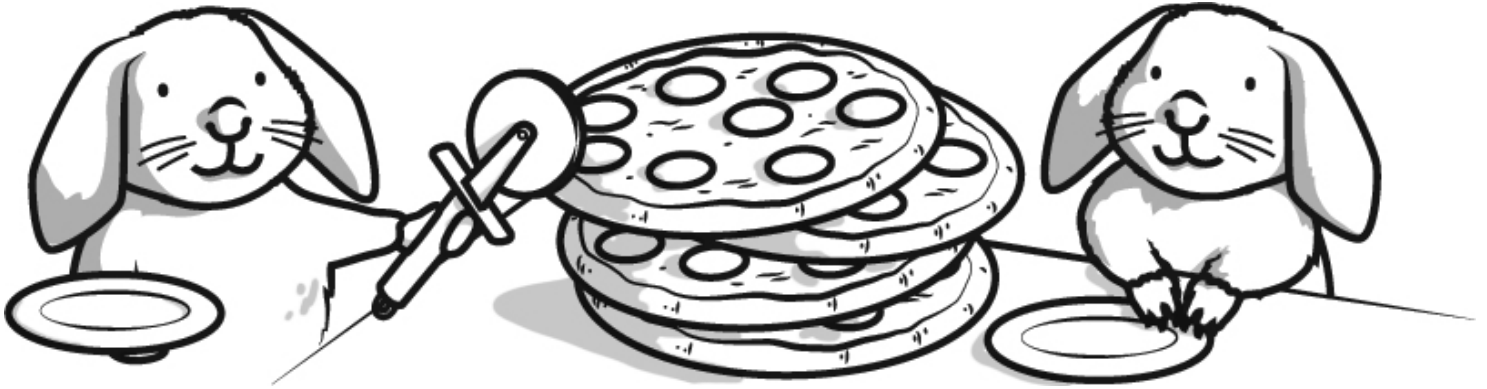
Round 81,474 to the nearest hundred.

How many minutes is it from 9:00 a.m. to 11:20 a.m.?

A toy car can go 4 mph.
How long would it take to go 14 miles?

Round the decimal 0.465 to the nearest hundredth.

Name: _____



Write your own math problem here.

Ask the person who helped you to try to solve your problem.

Name: _____

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

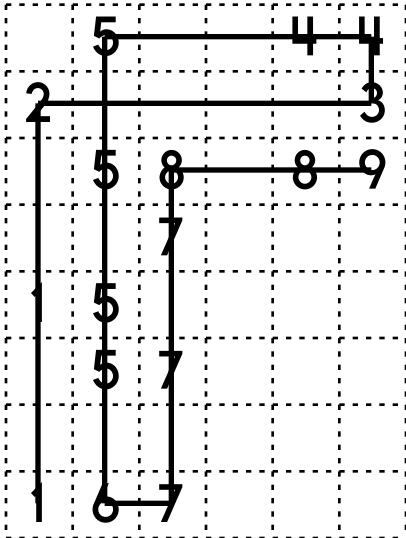
You can only move left, right, up, or down. And definitely no starting or stopping in a blank spot!

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

Draw exactly 8 lines.

Start on 1.

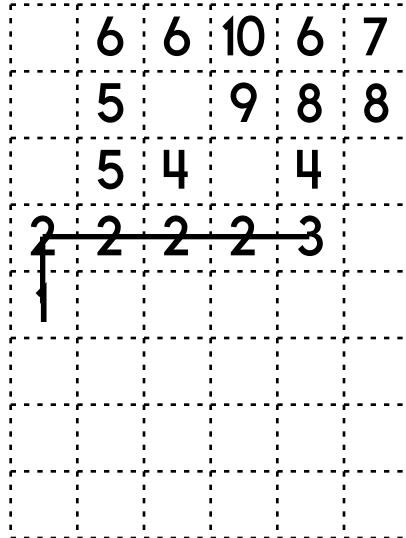
Do not pick up your pencil.



Draw exactly 9 lines.

Start on 1.

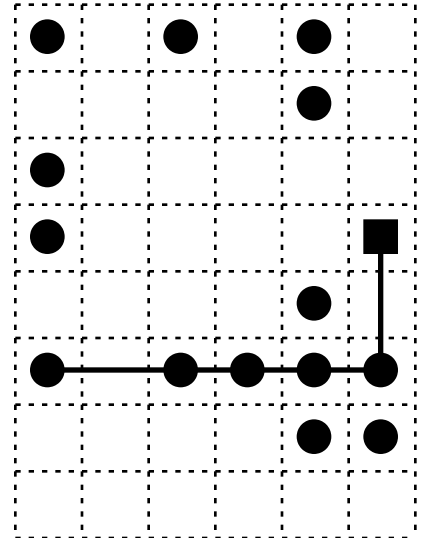
Do not pick up your pencil.



Draw exactly 6 lines.

Start on the square.

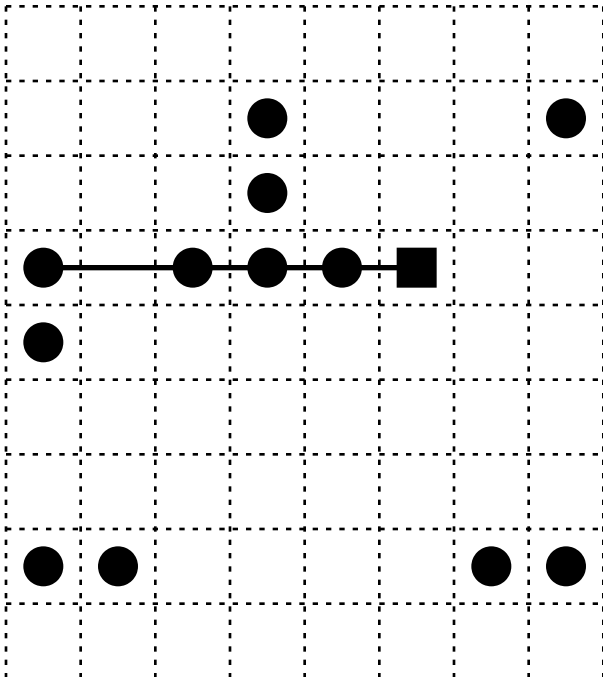
Do not pick up your pencil.



Draw exactly 6 lines.

Start on the square.

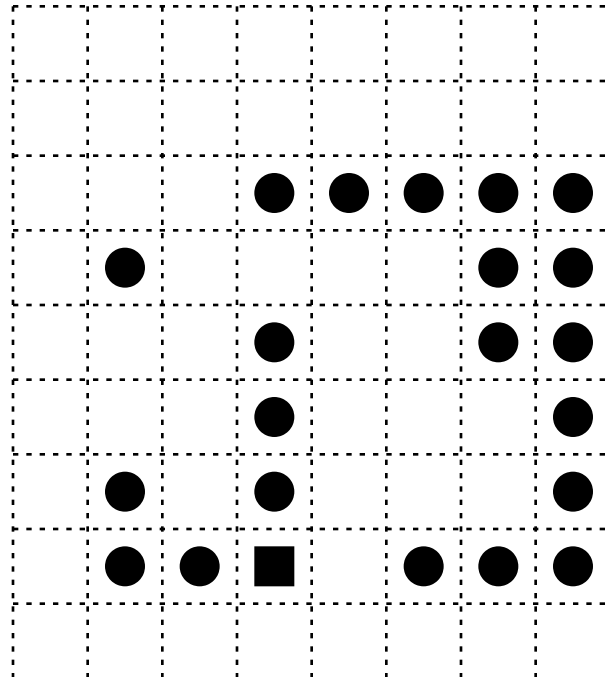
Do not pick up your pencil.



Draw exactly 9 lines.

Start on the square.

Do not pick up your pencil.



Name: _____

Fill in the missing numbers.

Only rule - The same number CAN NOT be next to each other, in ANY direction.

Dark lines surround a block. Numbers to use in a block:

A block with 1 space has to be the number 1.

A block with 2 spaces must have the numbers 1 and 2.

A block with 3 spaces must have the numbers 1, 2, and 3.

A block with 4 spaces must have the numbers 1, 2, 3, and 4.

2	4	1	3	2
1	3	2	4	1
2	4	1		
1	3	2		

An entire block with 4 spaces is blank. Since the block is 4 spaces it uses the numbers 1-4.

1 4 2 3

1	3			2
2	4			1
1	3	2	3	2
2	4	1	4	1

An entire block with 4 spaces is blank. Since the block is 4 spaces it uses the numbers 1-4.

1 4 2 3

1	4	1		1
	3	2	3	2
	4	1	4	1
3	2			3

Hint - These numbers are missing:

2 4 1 2 3

2		1	3	2
1		2	4	
	4	1		2
1	3	2		1

Hint - These numbers are missing:

2 1 3 4 4 3

Name: _____

Fill in the missing numbers.

Only rule - The same number CAN NOT be next to each other, in ANY direction.

	3		3	
1	4	2		2
	3		3	
1	4	2		2

Hint - These numbers are missing:

1 4 1 1 2 4 2 1

		2	4	1
2	4	1	3	2
1				1
2	4		3	

Hint - These numbers are missing:

3 1 1 3 2 2 4

	2		4
1	4	3	2
	2		4
1		3	

Hint - These numbers are missing:

2 3 3 4 1 1

3	1		1
	2	4	
3	1		1
	2	4	

Hint - These numbers are missing:

3 2 2 4 4 3

H, F, I, G, J, H,
_____, I, L, J

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

Double two.

☐

I did page 19

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edHelper

Name: _____

Mary invited her friends over to celebrate her birthday. She has 28 boxes of strawberry sour mints to give her friends. In their goodie bags she gave them each 4 boxes of strawberry sour mints. She has 12 boxes left. How many goodie bags did she make?

Use mental math to complete. That means do the math in your head!

$$\underline{\hspace{2cm}} \times 7 = 14 \times 140$$

$$\underline{\hspace{2cm}} \times 5 = 10 \times 50$$

$$144 \times 6 = 12 \times \underline{\hspace{2cm}}$$

$$108 \times 4 = 8 \times \underline{\hspace{2cm}}$$

$$320 \times 8 = 16 \times \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \times 3 = 6 \times 45$$

Name: _____

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

40 x 11 = ●

● 24 x 16 =

27 x 32 = ●

● 25 x 27 =

48 x 16 = ●

● 50 x 11 =

50 x 23 = ●

● 45 x 15 =

40 x 22 = ●

● 24 x 27 =

16 x 27 = ●

● 46 x 25 =

18 x 36 = ●

● 24 x 32 =

13 x 36 = ●

● 48 x 18 =

25 x 22 = ●

● 32 x 12 =

11 x 30 = ●

● 15 x 22 =

22 x 20 = ●

● 44 x 20 =

18 x 26 = ●

● 24 x 18 =

What is 16 less than 899?

double 52 =

How many tens are in the number 90?

Draw a small clock that shows 15 minutes to 9:00.

Double the number 10 three times.

How many tens are in the number 23,000?

10, 12, 14, 16, 18,
_____, 22, 24, 26, 28

There are 4 groups of 6 rocks. How many rocks?

Jenna gave out a survey. The answers she got back were 14, 13, and 16. What is the range of these numbers?

Name: _____

Mrs. Hernandez sent an e-mail out to parents asking them to send balloons to class.

Emma brought in $\frac{1}{5}$ as many balloons as Max. Max brought in $\frac{1}{3}$ as many balloons as Jessica. Who brought in the most balloons?

Did you guess Jessica? You would be correct. She brought in 135 balloons! How many balloons did Emma and Max bring to class?

What is the sum of 10 and 491?

$$12 \times 8 =$$

100, 110, 120, 130, 140,
150, _____, 170

$$7 + 11 + 8 - 5$$

Pam bought a pack of six waters. It cost \$3.48. How much did each water cost?

How many total legs are on 60 tigers.

Insert punctuation marks into this sentence.

Mrs. Ethelmeyer told her class how proud she was that they all passed the spelling test.

$$19 \text{ kg} = \text{_____ g}$$



☐

I did page 22

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Name: _____

Amanda has a new job working at Pizzeria Magpie. She loves it, but she can only work two hours on Monday, two hours on Tuesday, and seven hours on Saturday. The pizzeria will give her a check every two weeks. She will be paid \$12.40 per hour. How much will her first paycheck be?

Change $\frac{86}{100}$ to a decimal.

Change $\frac{47}{50}$ to a decimal.

$$\begin{array}{r} 2.2 \\ \times 90 \\ \hline \end{array}$$

How much greater is 172 than 32?

Find the product of 9 and 3.

$$12 + 6 \times 3 \times 9$$

Explain the meaning of the underlined phrase.

I have missed my grandmother's pearls of wisdom since she died.

$$11 \times 3 =$$

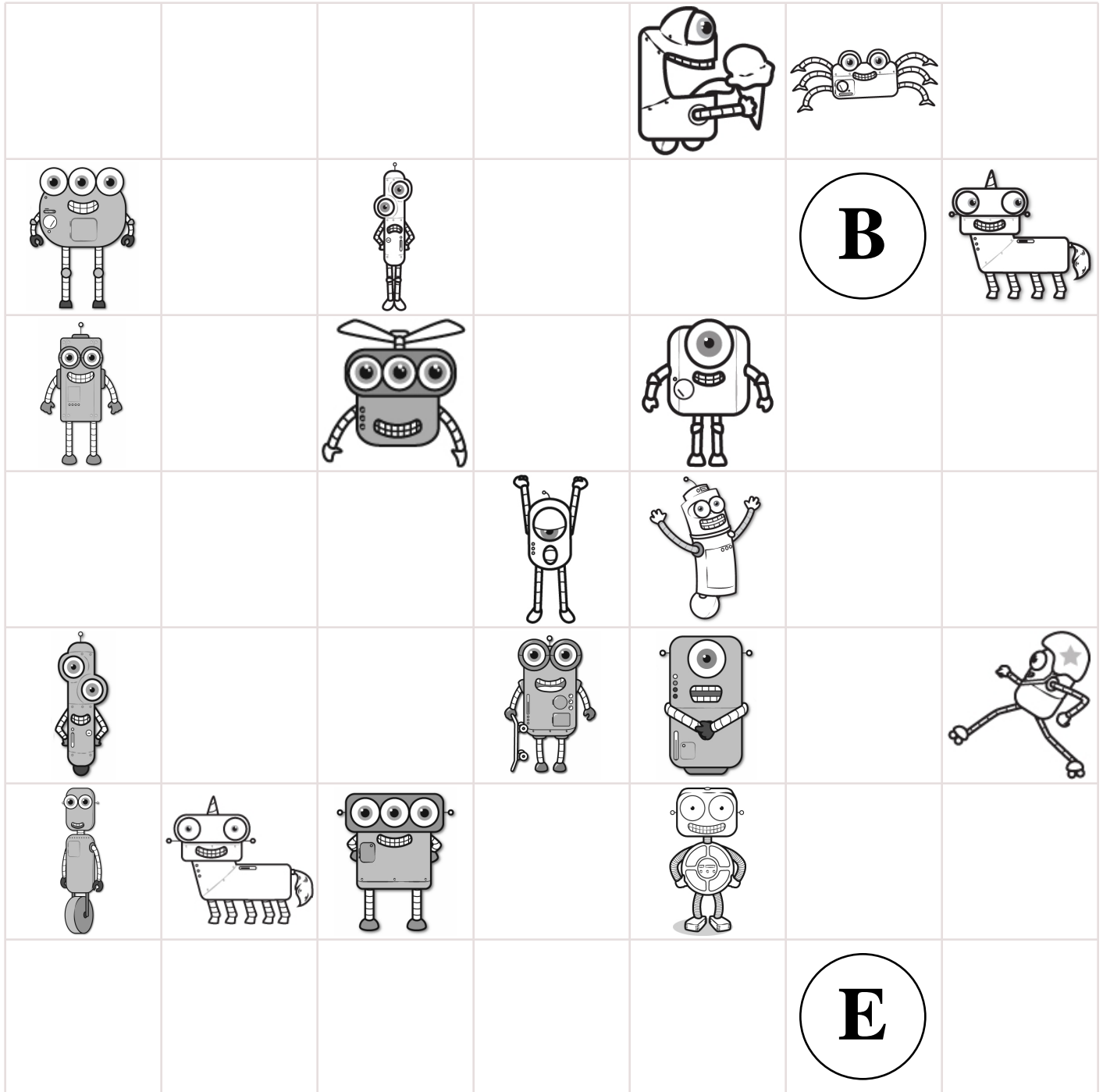
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Name: _____

Pick up all of the robots from the game board. Start on the **B** circle. Do not pick up your pencil. Draw a line going left, right, up, or down. **Every line must end on a robot or the E circle. No stopping on an empty box.** Try to collect all the robots and end your last line on the **E** circle. You can go through a robot more than once.



Didn't get them all? That's ok. This was hard. I missed only _____ robot/robots.

Name: _____

Amy bought a book of heart stickers to leave for people on Random Acts of Kindness Day. There were 228 stickers in the book. If there were 12 stickers on each page, how many pages were in the book?

Justin has three quarters, five nickels, and one dime to buy chocolate ice cream. Write three different expressions that show the amount of money he has.

Holly and Megan are at the paint store. They want to paint 2 rooms in their house. Each room has 360 square feet of wall to be painted. "How much paint do you think we should get?" Holly asks Megan.

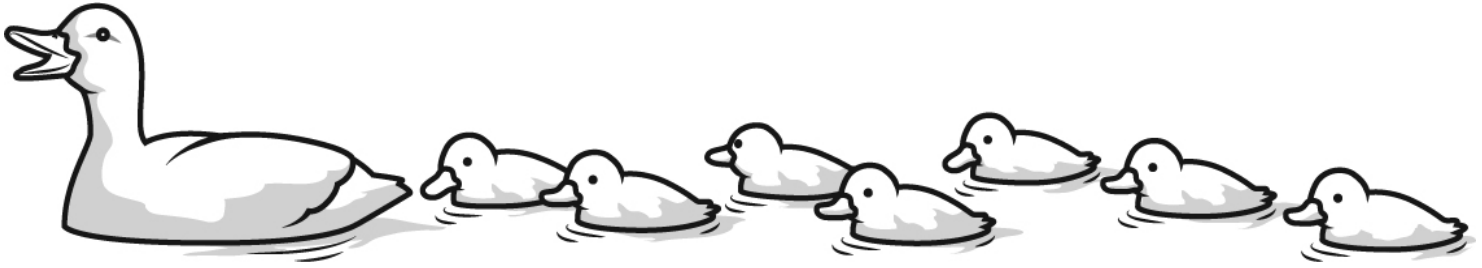
"This 1 gallon of paint says it should be enough to cover 180 square feet," replies Megan. How many gallons should they get? The store only sells whole gallons.

"I can quickly divide a three-digit number by a two-digit number," Emma tells David.

"Yeah, sure," replies David. "Then what is 630 divided by 42?"

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

Name: _____



Write your own math problem here.

Ask the person who helped you to try to solve your problem.

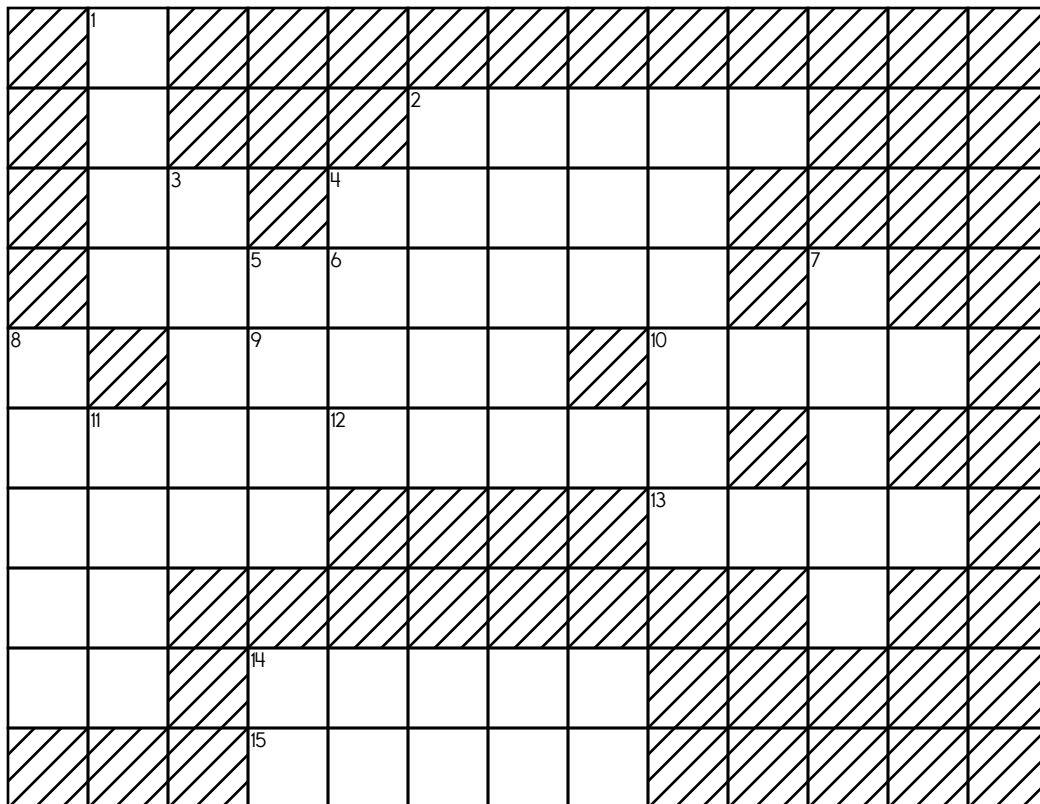
Name: _____

ACROSS

DOWN

2. **seventy-nine thousand, eight hundred thirty**
4. the tens in 2-Across + the hundreds in 12-Across + the thousands in 11-Down + the ten thousands in 2-Down
6. the tens in 9-Across + the hundreds in 7-Down + the ten thousands in 12-Across
9. the hundreds in 12-Across + the tens in 2-Down + the thousands in 11-Down
10. four thousand, forty-one
12. the tens in 11-Down + the hundreds in 2-Across + the ten thousands in 2-Down
13. the tens in 14-Across + the hundreds in 4-Across + the thousands in 11-Down
14. the ten thousands in 2-Across + the tens in 9-Across + the hundreds in 12-Across + the thousands in 8-Down
15. the thousands in 4-Across + the ten thousands in 3-Down + the tens in 2-Down

1. the tens in 7-Down + the thousands in 13-Across + the hundreds in 3-Down
2. the ten thousands in 2-Across + the tens in 10-Across + the thousands in 11-Down
3. the tens in 10-Across + the ten thousands in 2-Down + the hundreds in 2-Across + the thousands in 11-Down
5. the tens in 2-Across + the hundreds in 11-Down + the thousands in 13-Across
7. the ten thousands in 8-Down + the hundreds in 4-Across + the tens in 2-Down + the thousands in 10-Across
8. the hundreds in 3-Down + the ten thousands in 2-Down + the thousands in 2-Across
11. six thousand, six hundred ninety



Name: _____

Guess what you have to do on the Name that Number app? You guessed it! You name the correct number. For 50 gold stars, here is the clue. The number rounded to the nearest 10 is 180. The ones digit is 3. Quick! If you can write the answer in 30 seconds you get 15 bonus gold stars!

Peter drew a rectangle that is 12 inches by 6 inches. He wants to arrange some crackers on top of his rectangle. The crackers are each 3 inches by 3 inches. How many crackers can he place onto his rectangle without overlapping them?

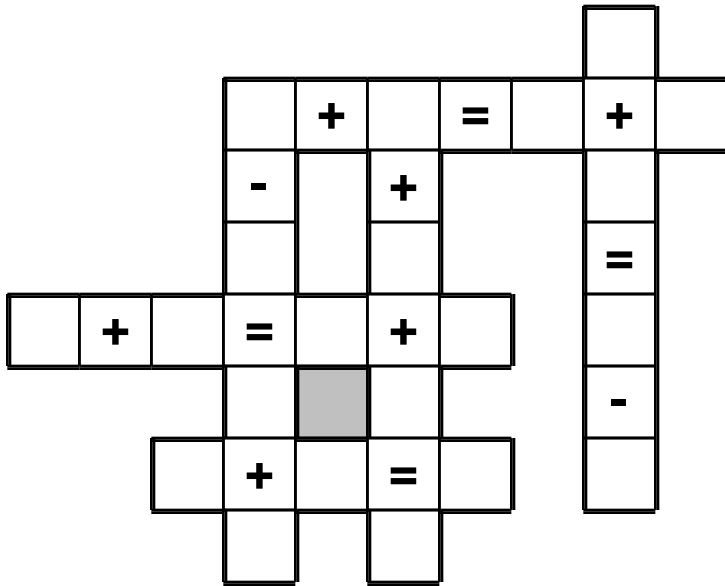
Complete.

$$80 + 80 + 80 - 80 + 80 + 80 = 80 \times \underline{\hspace{1cm}}$$

Name: _____

2 • 9 • 0 • 3 • 6 • 2 • 5 • 0 • 7 • 8 • 8 • 7 • 7 • 2 • 6 • 1
0 • 1 • 3 • 2 • 6

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



Sketch an obtuse angle
named $\angle FGH$.

Sketch an acute angle
named $\angle BCD$.

Sketch a right angle named $\angle DEF$.

What is 50% of 1,036?

Write $\frac{9}{15}$ in lowest terms.

What 5 coins add up to 51 cents?



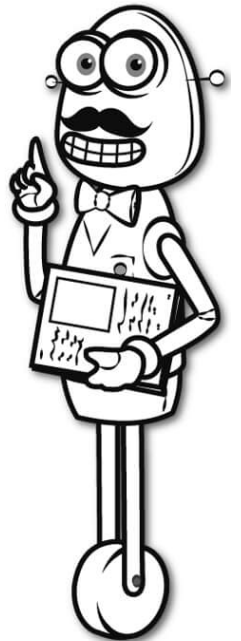
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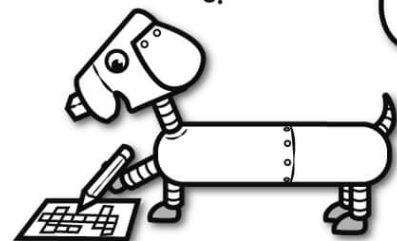
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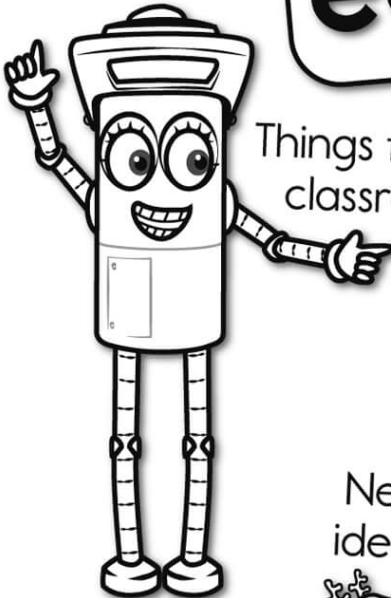
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