

This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.

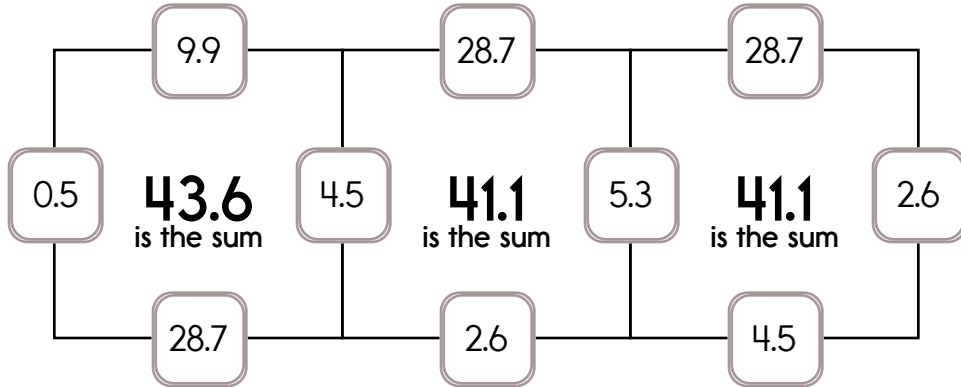
Example:

$$0.5 + 4.5 + 9.9 + 28.7 = 43.6$$

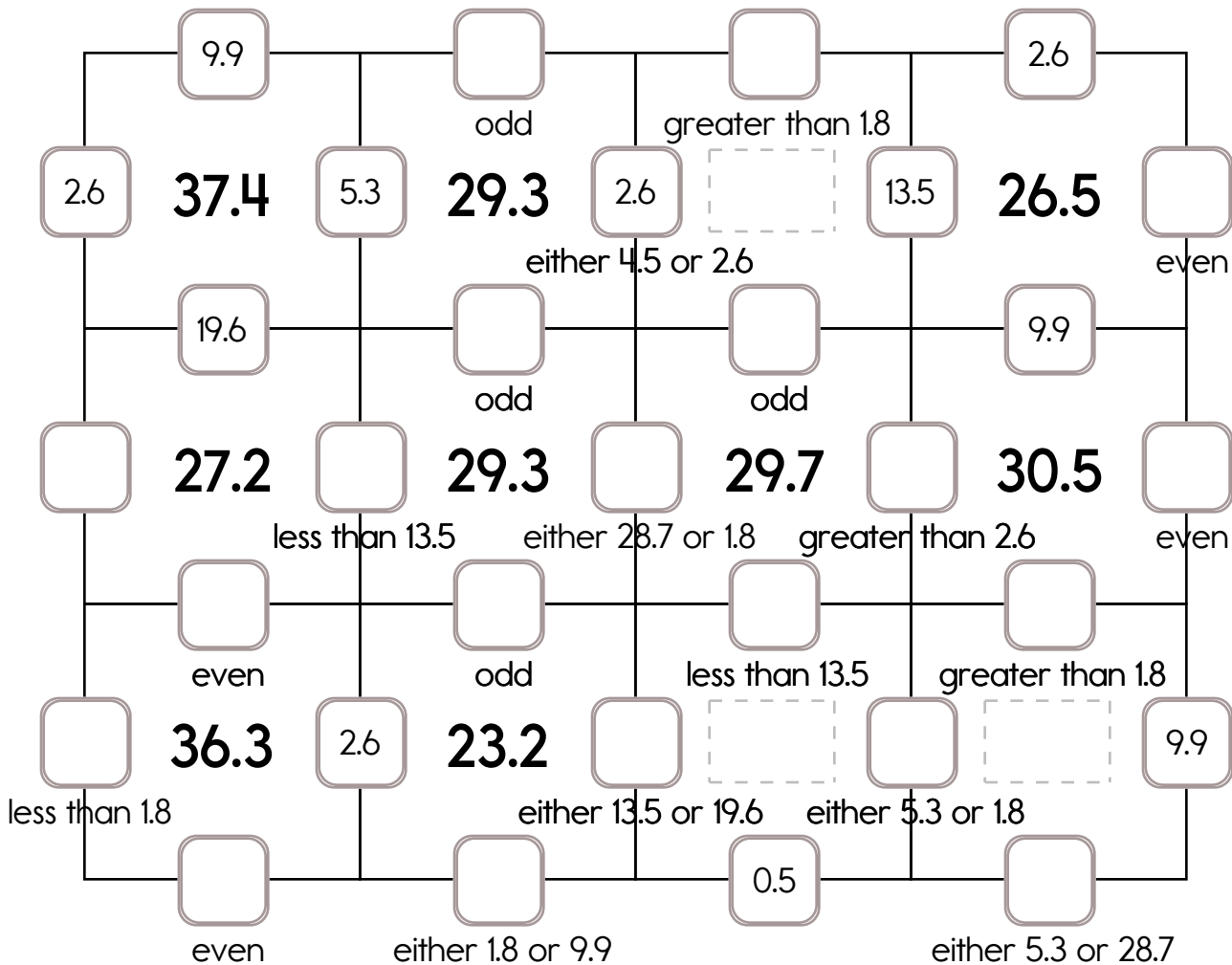
Example:

$$5.3 + 2.6 + 28.7 + 4.5 = 41.1$$

Sample:



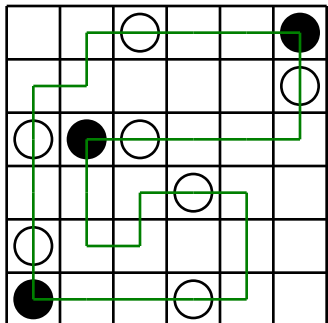
Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: 19.6, 13.5, or 28.7. The other three numbers have to all be DIFFERENT and can be from these numbers: 1.8, 0.5, 4.5, 9.9, 5.3, or 2.6.



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: 17.4, 12.3, or 16.8. The other three numbers have to all be DIFFERENT and can be from these numbers: 3.8, 0.9, 6.3, 7.5, 5.3, 2.7, or 8.7.

	3.8		0.9		3.8			
16.8	34.4	6.3	33.3	17.4	30.8		24.2	2.7
	7.5			17.4	8.7			
	32.3		24.6		30.8		32.2	5.3
	25.7		24.8		30.2		33.9	
			36.5		32.3		39.3	
	31.1		31.1					

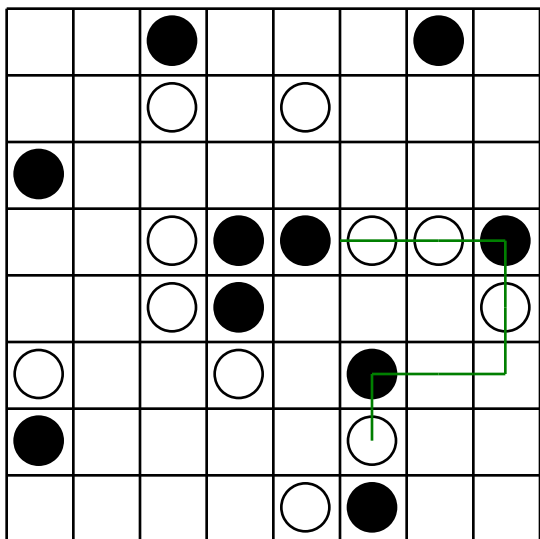
less than 5.3
 odd
 even
 less than 12.3
 even
 greater than 2.7
 greater than 0.9
 either 16.8 or 3.8
 odd
 less than 17.4
 odd
 either 6.3 or 17.4
 even
 odd
 greater than 0.9
 greater than 0.9
 either 3.8 or 5.3
 either 5.3 or 7.5
 even
 either 17.4 or 6.3
 less than 12.3
 even
 less than 17.4
 even
 greater than 5.3
 less than 16.8
 odd
 greater than 6.3
 greater than 0.9
 either 16.8 or 17.4
 either 2.7 or 17.4
 even
 greater than 0.9
 either 3.8 or 12.3



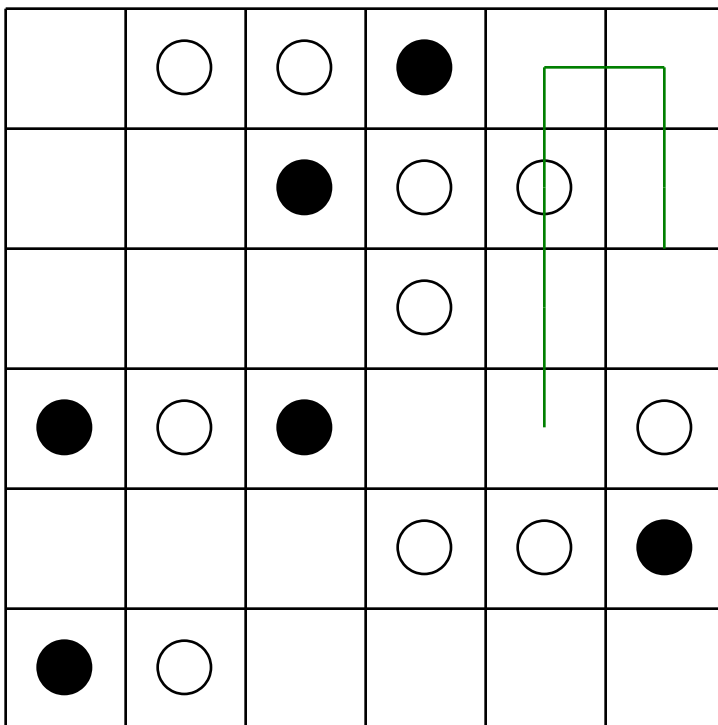
Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn. You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

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

Finish the line:



Finish the line:



You can buy 4 toys for \$8 at the store. At this rate, what would be the cost of sixteen toys?

Rewrite these in increasing order of length:

20 m, 132 mm, 539 dm, 349 cm



$$\begin{array}{r} 392 \\ + 280 \\ \hline \end{array}$$

Write 135,281 in words.

Sally's family got a new robot. The robot is fantastic. It cleans the house, cooks the meals, and even does Sally's homework!

"Does not!" interrupts Sally. "Apparently Mom has disabled that function."

"Don't complain," adds Dad. "That robot cost me over 5 million dollars. Not to mention its electricity costs. I have to charge it for 8 hours each night. And during those 8 hours it requires 15,000 watts of electricity."

Dad was looking at the monthly electricity bill, of course. "I don't get it," says Dad. "What is kWh and why is it 40 cents?"

"A kWh," begins Sam (Sam is the robot!), "is a kilowatt hour. That means when you run a machine using 1,000 watts for exactly 60 minutes, you have to pay 40 cents."

Dad was even more confused. So how much does it cost to charge Sam each night?

Show your work. And you are NOT allowed to ask Sam for the answer!

x	2	3	4	5	6	7	8	9	10	11	12
7									70		
12				60							
6			24								
2					12						
11										121	
10						70					

Look at the chart.
The number 36 is in the 3rd column of the 1st row.

18	27	36	45	54
63	72	81	90	99
108	117	126	135	144
153	162	171	180	189

What number is in the 5th column of the 3rd row?

If the pattern continues, what number would go in the 4th column of the 7th row?

Mr. Brown bought a case of rope licorice for his store. The case cost \$158.50. There are 10 boxes in a case and 12 bags in a box. Each bag contains 5 ropes of red licorice. How many ropes are there in a case?

$$\begin{array}{r} 25 \\ + 34 \\ \hline \end{array}$$



29 lb = _____ oz

731 - 699 = _____

2 x 4 = _____

1 km = 1,000 m

23 km = _____ m

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

3, 6, 10, 20, 24, 48, 52, _____, _____, _____, _____

7, 14, 18, 36, 40, 80, 84, _____, _____, _____, _____

9, _____, _____, _____, _____, _____, _____, _____, 200

What is the rule for each pattern?

95, 25, 84, 23, 73, 21, 62, 19, 51, 17, 40, 15, 29, _____

64, 24, 56, 21, 48, 18, 40, 15, 32, _____, _____, 9, 16

_____, _____, 114, 129, 101, 113, 88, 97, 75, 81, 62, 65, 49



How many times
do you need to spin?

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

Spin fidget spinner. Quick! Do as many as you can before it stops.

1		
-8		9

14		
7		

4		
		3

-5		
		-6

-1		
-2		

7		
0		

6		
		8

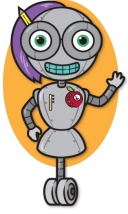
0		
-7		

-8		
-5		

8		
		8

-1		
		-7

-1		
-2		



You getting this? Hey! Is Miss Meena mean? She is not! She's Meena. But now she's getting mad! Try this on for size!

Miss Meena typed:

Boys = 10

Girls = 6

Answer = Boys - Girls

print ("There are ",Answer,
"more boys in the class.")

The computer replied:

There are 4 more
boys in the
class.

Boys = 12

Girls = 16

Answer = Girls - Boys

print ("There are ",Answer,
"more girls in the class.")

Boys = 11

Girls = 7

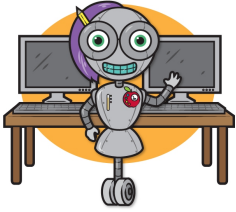
Answer = Boys + Girls

print ("There are ",Answer,
"kids in the class.")

$$15 \div 3 = \underline{\quad}$$

What number is halfway
between 3 and 18?





Miss Meena is mad. Addition and subtraction are too easy. She made something up. She calls it puddytraction!

```
x = 13
x = x + 9
print ( x )
```

22

```
x = 18
x = x + 4
print ( x )
```

```
x = 10
x = x + 8
print ( x )
```

```
Apples = 19
BugAte = Apples - 5
print ("The bugs ate ",BugAte," apples.")
```


```
Apples = 12
BugAte = Apples - 5
print ("How many apples left?")
Answer = Apples - BugAte

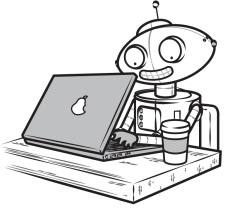
print (Answer)
```


556 - 236 = _____

$$\begin{array}{r} 686 \\ - 449 \\ \hline \end{array}$$

$$\begin{array}{r} 74 \\ - 44 \\ \hline \end{array}$$





Okay, you are really programming! Yes, some people may call this algebra. But puddytraction is so much cooler!
Wow.

```
x = 12
d = x + 8
print ("x is ",x,
       "d is ",d)
```

x i s 12
d i s 20

```
x = 49
d = x + 5
print ("x is ",x,
       "d is ",d)
```

— — — — —
— — — — —

```
x = 64
d = x + 3
print ("x is ",x,
       "d is ",d)
```

```
Apples = 14
BugAte = Apples - 4
print ("How many apples left?")
Answer = Apples - BugAte

print (Answer)
```

———— ————— —————
—————
—

6 x 5 = _____

How many yards are in 27 feet?
_____ yards



There is 1 prime number greater than 43 but less than 53. Name them.

Adam took a big bowl from the kitchen to see what kind of fun party mix he could create.

He added: $\frac{1}{2}$ cup of Goldfish crackers, $\frac{2}{3}$ cup of Cheerios, $1\frac{1}{6}$ cups of raisins, and $\frac{3}{7}$ cup of pretzels. How much food is now in the bowl?

Which two of these numbers have a product of 12.96?

5.4

0.024

0.24

0.054

2.4

0.64

0.064

0.54

Consistent Claire loves practicing her free throws. She is so consistent. Every game she gets the same percentage of free throws in. In the last game she played, Claire made 16 of 20 attempted free throws. In today's game, she attempted 10 free throws. Guess how many of them went in.

Each box needs a number from 1 to 9. You may re-use numbers.
One set of sums has been done for you.

	sum of 10 ↓		sum of 7 →				
sum of 3 ↓		sum of 4 ↓	sum of 5 →				
			sum of 10 ↓	sum of 10 →			
	sum of 10 →		2			sum of 6 ↓	
	sum of 9 →		8	sum of 8 →			
			sum of 8 →				
	sum of 9 →						
	sum of 6 →						

sum of 4 →					sum of 3 →		
sum of 6 →				sum of 4 →			
sum of 10 →				sum of 12 →			
sum of 3 →				sum of 6 →			
	sum of 4 ↓	sum of 4 →					sum of 10 ↓
sum of 6 →	1				sum of 5 ↓	sum of 6 ↓	
sum of 4 →	1						
sum of 9 →	2						

Mrs. Lee bought a CD with 12 old radio programs on it. She listened to 6 of the programs. She paid \$16.78 for the CD. She gave the clerk a \$20 bill. What fraction of the programs did she not listen to?

Rosa is trying to choose what kind of ice cream cone to buy. She can buy a sugar cone, a plain cone, or a waffle cone. She can choose vanilla, chocolate, or strawberry ice cream. How many choices does she have?

$11 \times 9 =$ _____
$3 \times 6 =$

Gavin invented a robotic bug. The bug can crawl six centimeters in twenty-five seconds. How long would it take the bug to crawl fifty-four centimeters?

$55 \div 5 =$

$4 \times 9 =$

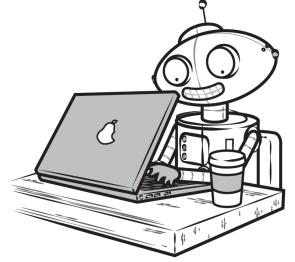


Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: 18.8, 21.5, or 25.1. The other three numbers have to all be DIFFERENT and can be from these numbers: 6.7, 5.6, 7.4, 1.3, 9.1, 4.4, or 0.1.

	7.4			0.1		0.1		
			even					
5.6	47.2	9.1	35.6	1.3	35.6		37	4.4
			either 1.3 or 4.4			odd		
	25.1							
			odd		odd		either 7.4 or 5.6	
	39.3		33.2		38.7		33.9	
			greater than 4.4	even		odd		either 9.1 or 1.3
			less than 21.5		less than 6.7		even	
							either 4.4 or 0.1	
	38.5				39.7		32	
			greater than 1.3	greater than 5.6				odd
			either 6.7 or 18.8	less than 21.5	less than 21.5		less than 25.1	
	41.7		31.6		30.3		28.5	
			odd	even	odd		even	
			odd	odd			odd	
	41.7		35.5					
			greater than 4.4	even		less than 18.8		
			greater than 6.7		less than 21.5		greater than 6.7	

Randomizer Rumbles

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



Miss Meena typed:

```
# Dr. Programmer needs to pick
# a random number from 1 to 9.
# I wonder what the computer will pick!
A = Random(1,9)
print ("A number from 1 to 9? I pick", A, ".")
```

The computer replied:

A number
from 1 to 9?
I pick 2 .

```
# Hint: You need to be the computer and
# PICK the random number!
A = Random(1,9)
print ("I pick", A, ".")
```

— ——— — —

```
A = Random(1,9)
print (A)
```

1

```
A = Random(1,9)
print (A)
```

—

```
# Hint: Now a number from 100 to 999
A = Random(100,999)
print (A)
```

501

```
A = Random(100,999)
print (A)
```

———

```
A = Random(100,999)
print (A)
```

———


```
A = Random(100,999)
print (A)
```

Blank box for student response.

```
A = Random(1,9)
print (A)
```

—

```
A = Random(1,9)
print (A)
```

Blank box for student response.

```
A = Random(10,99)
print ("I can't wait until
      I am ",A,"years old.")
```

I can't wait
until I am
16 years
old.

```
A = Random(10,99)
print ("I can't wait until
      I am ",A,"years old.")
```

— — — — —
— — — — —
— — — — —
— — — — —

```
A = Random(1,5)
print ("A = ",A)
B = Random(6,9)
print ("B = ",B)
C = A + B
print ("C = ",C)
```

— — —
— — —
— — —



```
A = Random(1,5)
print ("A = ",A)
B = Random(6,9)
print ("B = ",B)
C = A + B
print ("C = ",C)
```

```
A = Random(1,5)
B = Random(6,9)
C = A + B
print (C)
```

```
A = Random(1,5)
B = Random(6,9)
C = A + B
print (C)
```

```
A = Random(1,5)
B = Random(6,9)
C = A + B
print (C)
```

```
A = Random(1,5)
print ("A = ",A)
B = Random(6,9)
print ("B = ",B)
C = A + B
print ("C = ",C)
C = C + 1
print ("C = ",C)
D = A + B
print ("D = ",D)
```

8

— — —

— — —

— — —

— — —

— — —

```
A = Random(55,56)
print ("A = ",A)
```

— — —

$63 \div 7 =$ _____	<p>Write this as a number in standard form. Use a comma in your number.</p> <p>six hundred six thousand, four hundred sixty-nine</p> <p>_____</p>	$15 \div 3 =$ _____
		$14 \div 7 =$ _____

<p>Ava is going to roll two dice. What is the chance that her total will be either 10 or higher on her first roll?</p>	<p>What number is halfway between 13 and 19?</p>	$60 \div 6 =$
	$7 \times 11 =$ _____	

<p>Amanda and Emma are playing a number game. Amanda says 5. Emma replies that the answer is 1. Amanda says 11. Emma replies that the answer is 3. Amanda says 8. Emma replies that the answer is 2. Amanda says 17. Emma is thinking. What number should Emma reply with?</p>	$7 \times 12 =$ _____
--	-----------------------

$(3 + 6) + 5 =$	$54 \div 9 =$ _____	$5 \times 12 =$ _____
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In the number 520,937,570,408, the digit 4 is in what place?



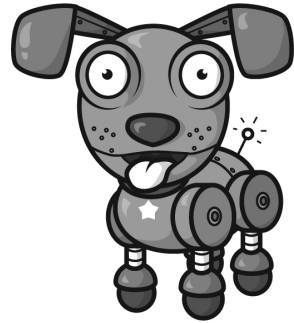
Directions:

Use the rule that
1 human year = 7 dog years
to fill in the blanks.



How many times
do you need to spin?

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



Spin fidget spinner. Quick! Do as many as you can before it stops.

Human Years: <u>4.7</u> Dog's Age: <u>32.9</u>	Human Years: <u>12</u> Dog's Age: _____	Human Years: <u>3.6</u> Dog's Age: _____	Human Years: <u>9 $\frac{5}{6}$</u> Dog's Age: _____
Human Years: <u>14 $\frac{1}{12}$</u> Dog's Age: _____	Human Years: _____ Dog's Age: <u>109 $\frac{2}{3}$</u>	Human Years: <u>10 $\frac{1}{4}$</u> Dog's Age: _____	Human Years: _____ Dog's Age: <u>16.8</u>
Human Years: <u>12</u> Dog's Age: _____	Human Years: _____ Dog's Age: <u>28</u>	Human Years: _____ Dog's Age: <u>14</u>	Human Years: <u>8 $\frac{8}{12}$</u> Dog's Age: _____
Human Years: <u>5 $\frac{5}{12}$</u> Dog's Age: _____	Human Years: <u>9</u> Dog's Age: _____	Human Years: _____ Dog's Age: <u>26.6</u>	Human Years: _____ Dog's Age: <u>37.1</u>

Mary can't wait for her friend to visit.

"As soon as you leave the airport, drive 26 miles to exit 5," says Mary.

"You mean kilometers?" asks Rosa.

Help Mary tell Rosa how many kilometers to drive. Use $1 \text{ mile} = 1.6 \text{ kilometers}$.

What number multiplied by 12 has a product of -264?

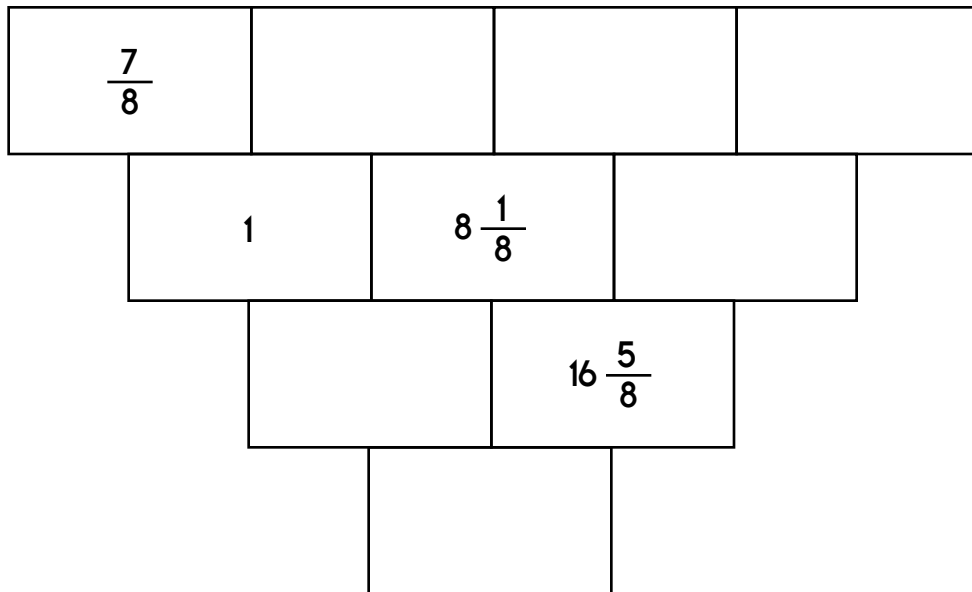
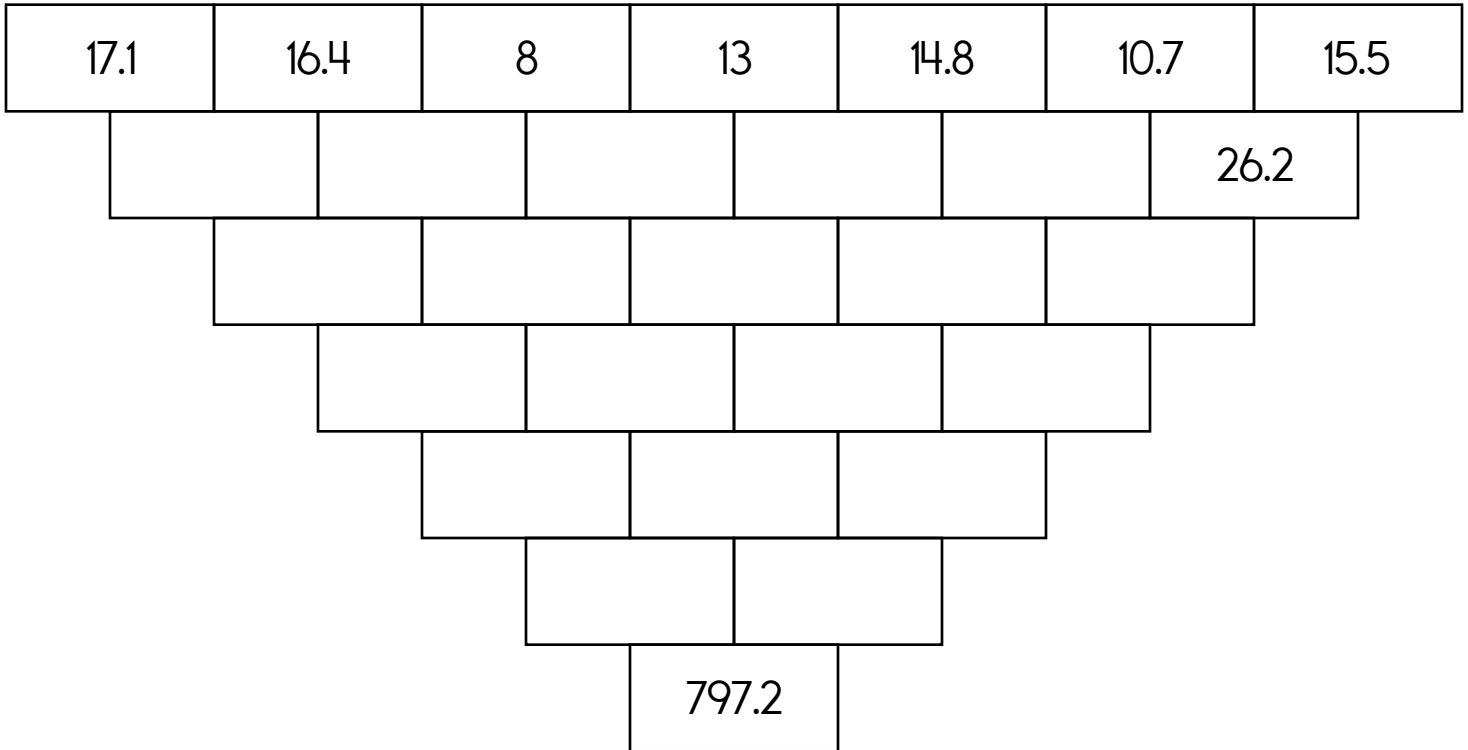
Give two answers for x in each equation.

$$|-11 + x| = 2$$

$$|x - 9| = 1$$

Maria is mapping out an imaginary trip from point $(-11, 7)$ to $(5, 7)$. She spent 12 days there. Then she went to point $(5, 5)$. If 1 unit = 65 miles, how many total miles did she travel in all?

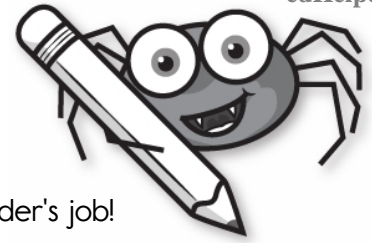
The block below is the sum of the two blocks above. Fill in the missing blocks.



$68,224 - 54,652 = \underline{\hspace{2cm}}$	$3 \times 5 = \underline{\hspace{2cm}}$
--	---

$18 \div 3 = \underline{\hspace{2cm}}$
--





Write in `<bold>Bold</bold>`.

Write in **Bold**.

Spider works at Chem Corp. Her job is to make web pages. After all, that is a spider's job!
Spider is teaching a class on making web pages. She is teaching about bold.

"Class," says Spider. "Match the web page text on the left with what it will look like. I did the first one for you."

Spider Writes:

- Spider makes `<bold>web pages</bold>`.
- Making `<bold>web pages</bold>` is cool!
- `<bold>Spider</bold>` likes to `<bold>code</bold>`!

Web Page Looks Like:

- Making **web pages** is cool!
- **Spider** makes web pages.
- **Spider** likes to code!
- Making web pages is cool!
- Spider likes to code!
- Spider makes **web pages**.

Spider is making her web page. This is what she wants it to look like:

Spiders have **eight legs**.

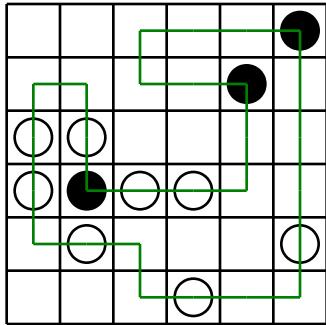
Spider wrote:

Spiders have `<bold>eight legs</bold>`.

You are making your own web page. This is what you want it to look like:

A butterfly is an **insect**.

How would you code that for the web? Pretend you are a spider if you have to!

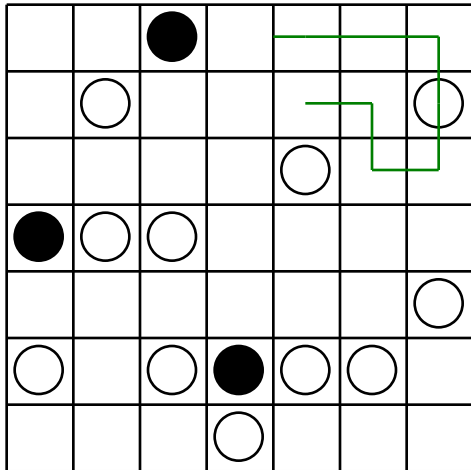


Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn.

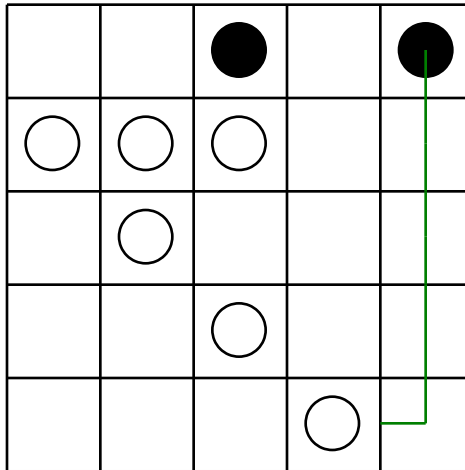
You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

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

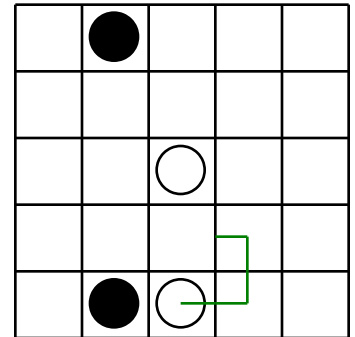
Finish the line:



Finish the line:



Finish the line:



Sara told Holly that she multiplied two consecutive whole numbers and the answer is 217. Holly doesn't believe that is possible. She thinks Holly must have multiplied wrong. Who is correct?

$20 \div 10 = \underline{\hspace{2cm}}$

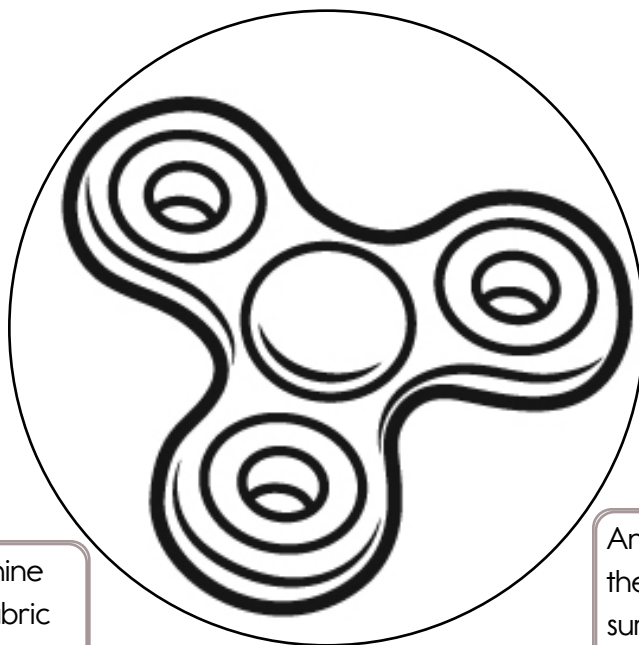
$108 \div 9 = \underline{\hspace{2cm}}$



Sara is older than Ava. Jenna is older than Ava. Who's the oldest?

Write the numbers 35 to 50 on a sheet of paper. How many of these numbers are divisible by 6?

Use a scrap piece of paper.



How many times
do you need to spin?

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

It takes the new cutter machine only 0.6 minutes to cut the fabric for a tie. How long will it take the machine to cut the fabric for 1,500 ties?

Adam bought 15 tickets to the state fair. He and his friends wanted to watch the horse judging. Each ticket cost \$14.25. How much did he spend?

There were 11,172 fans at the first mule baseball game. There were 15,866 fans at Game 2. How many more fans attended Game 2?

Kevin wanted to sleep for $12\frac{1}{3}$ hours. He went to bed at 9:49 p.m. and woke up at 8:22 a.m. How much less than $12\frac{1}{3}$ hours did he sleep?

Erin used an entire 20-yard roll of masking tape to make a cardboard house for her little sister. How many inches of masking tape did she use?

Sammy Shark bought three programs for the floor show for \$32.1. If his brother Sal bought eight programs at the same price per program, what would the total cost be?

The circus starts at 7:30 p.m. It will take Anna 23 minutes to walk to the circus. What time should she leave her house to be there when the circus starts?

Anne donated nine percent of the money she earned this summer to her local fire department. If she donated a total of \$148 how much did she earn this summer?

Sara worked at the fair over the summer and earned \$703. She worked a total of 15 days. About how much money did she earn each day?

It takes one hundred forty-four pounds of milk to make sixteen pounds of cheese. At that rate, how much milk does it take to make seven ounces of cheese?

If 8 of 18 four-square courts had blue lines and the rest had white lines, what percent of the courts had white lines?

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

Sandy's Sweet Shoppe sold 32 chocolate ice cream cones on Sunday. That amount is $\frac{1}{5}$ of the total number of cones sold. How many cones were sold in all?

It took Mrs. Anderson 3 hours and 40 minutes to make the pies for the fair. Rewrite the mixed number as a fraction.

Mary has 127 pennies in a jar on her desk. Each penny weighs about 2.6 grams. What is the approximate weight of the 127 pennies?

The Crown Heights High School library has 25,113 books. If three-fourths of the books are non-fiction, how many of the books are fiction?

Jessica purchased 9 pieces of gum for \$0.09 each. What was the total cost of the gum?

The parade began at 3:30 p.m. It lasted for 63 minutes. What time was it over?

Amanda and Rose left their house at 9:34 a.m. to go to the beach. They returned home tired and sunburned at 5:00 p.m. How long had they been away?

Metro Messenger Service delivered one million, forty-five thousand, six hundred eighty-two messages last year. Write that number in standard form.

Nathan wrote a 200-word essay for the Labor Day essay contest. He started writing at 3:30 p.m. and finished the essay at 9:03 p.m. How long did it take him to write his entry?

The cost of a turkey is \$1.17 per pound. Write an equation for this function, and tell what each variable represents.

Anne's neighbor planted 176 seeds in his garden. Of those seeds, 38% were vegetable seeds. How many vegetable seeds did he plant?

Posters for Children's Book Week come in packages of 30. If each package costs \$8.27, how much will be spent on posters?

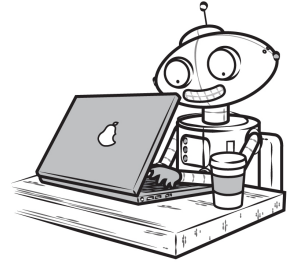
Mrs. Smith gave each of her 3 children an equal amount of money to spend at the beach. She gave them \$14.1 in all. How much money did each child get?

The Dressed Up Pet Parade began at 3:37 p.m. The parade was over forty-three minutes later. What time did the parade end?

Jack wanted to sleep for $13\frac{1}{3}$ hours. He went to bed at 9:41 p.m. and woke up at 7:23 a.m. How much less than $13\frac{1}{3}$ hours did he sleep?

Dr. Programmer is Counting Pens

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



(Don't tell anyone, but these are some of Dr. Programmer's secret commands!)



print This is the computer's pencil. It will be used to write something.

Miss Meena typed:

```
red pens = 6
green pens = 4
pens = red pens+green pens
```



```
print("There is a total of ",pens," pens.")
```

The computer replied:

```
-----
```

```
-----
```

```
-----
```

```
red pens = 6
green pens = 5
pens = red pens+green pens
```



```
print("There is a total of ",pens," pens.")
```

```
-----
```

```
-----
```

```
-----
```

```
blue pens = 8
pink pens = 5
orange pens = 4
```



```
print("We have ",pink pens," pink pens.")
```

```
-----
```

```
-----
```

21 ÷ 3 = _____



blue pens = 8
 pink pens = 4
 orange pens = 3



print("We have ",blue pens," blue pens.")

Can 1000 be evenly divided by 11? Circle: 1000 is divisible by 11 1000 is NOT divisible by 11	$88 \div 8 = \underline{\hspace{2cm}}$	$6 \times 8 = \underline{\hspace{2cm}}$
		$11 \times 8 = \underline{\hspace{2cm}}$

$79,972 + 66,564 = \underline{\hspace{3cm}}$	Emily rolls a die. What is the chance of her rolling a 3? _____
--	--

Circle the smallest number: 6,453,270 472,610 3,859 918,901,547	Three-fifths of the children in Wilson's class want to go outside. If Wilson agrees with the majority, will the class stay inside or go outside?
$10 \times 8 = \underline{\hspace{2cm}}$	

$77,573 - 48,662 = \underline{\hspace{3cm}}$	Circle the addition property for $73 + 66 = 66 + 73$. associative property commutative property
--	--

Rewrite these numbers in order from greatest to least.

-5.0704

-4

-5.07

-5

-5.7

In each group, circle the number that has the greatest value and put a square around the number that has the least value.

7^5

7^1

7^4

9^6

9^1

9^4

Rewrite this mixed number as an improper fraction.

$$9 \frac{7}{11}$$

Fill in the missing numbers.

$$23 - (-5) = \underline{\quad}$$

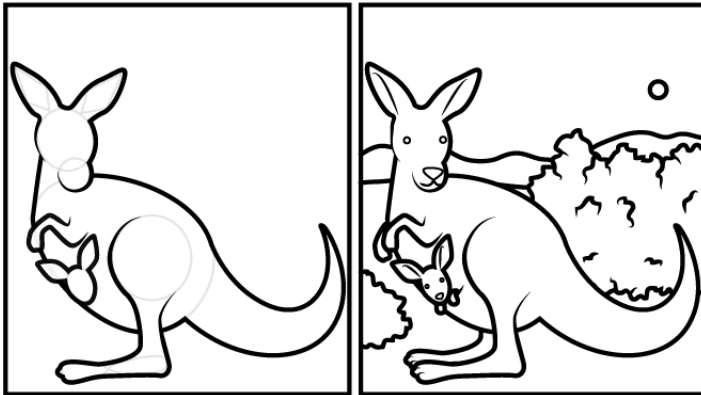
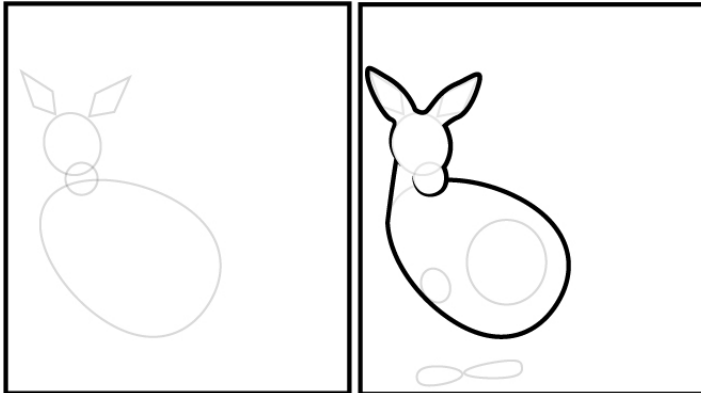
$$\underline{\quad} - (-2) = 27$$

$$\underline{\quad} + (-8) = 12$$

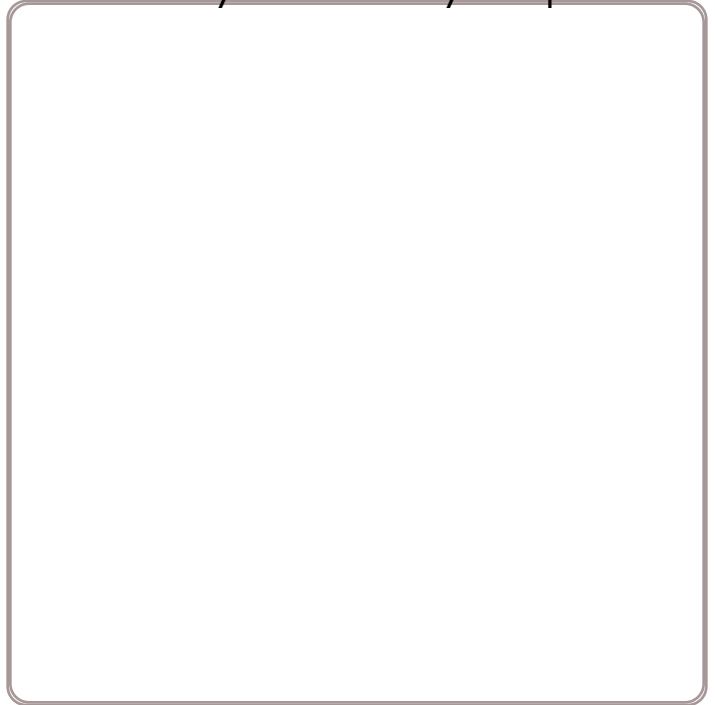
$$-16 - (-7) = \underline{\quad}$$

$$\underline{\quad} - (-3) = -14$$

$$\underline{\quad} + (-4) = -28$$



Draw it.
What can you add to your picture?



I added _____

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

$58,837 - 57,874 = \underline{\hspace{2cm}}$

$70 \div 10 = \underline{\hspace{2cm}}$

Which is the better buy?
Seven bags of candy for \$56
or two bags of candy for \$6?

For 337,017,019,481, write the
digit that is in the ten
thousands place.

$11 \times 12 = \underline{\hspace{2cm}}$

$34,152 + 93,266 = \underline{\hspace{2cm}}$

Circle the digit in the tenths place.

95.68

$2,263 + 4,317 = \underline{\hspace{2cm}}$



How many times
do you need to spin?

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

Spin fidget spinner. Quick! Do as many as you can before it stops.

9		
8	1	

7		
	7	

0		
	-9	

2		
	1	

2		
3		

-1		
	-3	

-1		
-1		

-1		
7		

-13		
	-8	

-2		
4		

-6		
	-9	

9		
1		

Eric has a headache. He can't stand run-on sentences. "Can you repeat that again?" he asks.

"It's easy. Name a number that is greater than 6, less than 15, is a multiple of 4, and FINALLY is a factor of 60," replies Jack.

Figure out the greatest common factor of the following numbers:

30

60

95

The area of a square is 39.69 square inches. What is its perimeter?

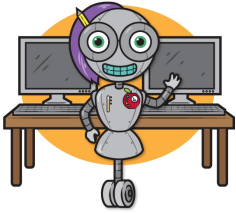
Round each number to the nearest thousand.

1,080,200.678787

9,774,506.230

4,736,450,195.487

715,921,021.330



Miss Meena is your new math teacher. And she is a robot! She doesn't talk. Do you know how she teaches her class?

Miss Meena typed:

The computer replied:

```
x = 5
print ("What is x?")

print (x)
```

What is x?

5

```
x = 79
print ("What is x?")

print (x)
```

```
x = 5
y = 6
print ("What is x + y?")

Answer = x + y
print (Answer)
```

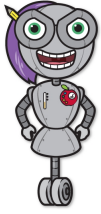
What is x + y?

11



Can you read that? That is how Miss Meena teaches. Shes codes computer programs. Did you guess correctly what the computer replied with? Don't ask robot dog!

78,949 + 68,211 = _____		938 - 156 = _____	
Write an equation to represent this: The difference between fifteen and three is twelve. _____		72 ÷ 9 = _____	18 ÷ 9 = _____



Can you figure these out?

```
x = 892
y = 81
print ("What is y?")

print (y)
```

```
x = 32
y = 31
print ("What is x + y?")

Answer = x + y
print (Answer)
```

```
x = 39
y = 78
print ("What is y - x?")

Answer = y - x
print (Answer)
```

Can 791 be evenly divided by 5? Circle:

791 is divisible by 5

791 is NOT divisible by 5

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

$54\frac{5}{7}$	$+\frac{2}{8}$		$-\frac{5}{7}$		$+5$	
-----------------	----------------	--	----------------	--	------	--

$+1\frac{6}{8}$

--

$+38$

	$+\frac{1}{3}$		-45	83	-16	
--	----------------	--	-------	------	-------	--

$+18$

	$+3\frac{4}{7}$		$+\frac{1}{3}$		-6		-51	$3\frac{5}{21}$
--	-----------------	--	----------------	--	------	--	-------	-----------------

17	$-\frac{3}{10}$	
------	-----------------	--

$99\frac{9}{11}$	$+12$		$+8\frac{5}{6}$
------------------	-------	--	-----------------

$-3\frac{3}{6}$

$-\frac{4}{11}$

$120\frac{43}{66}$

	$+\frac{2}{11}$	
--	-----------------	--

$115\frac{43}{66}$	-5
--------------------	------

$+21$

$-\frac{2}{10}$

$+11$

	$+57$		$+9$	$100\frac{21}{55}$
--	-------	--	------	--------------------

	$+2\frac{8}{11}$	$129\frac{25}{66}$
--	------------------	--------------------

Math Word Play

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

C	T	□	L	L	X	□	N	□	K
□	□	□	K	D	□	N	V	C	□
M	T	□	N	G	□	N	T	□	L
P	P	R	M	N	R	R	P	D	□
□	T	□	□	N	C	□	M	L	□
S	□	□	R	□	□	N	L	M	□
□	K	□	L	□	G	R	□	M	□
T	S	□	Q	□	□	N	C	□	□
□	□	S	B	P	M	G	T	T	□
C	□	N	T	□	M	□	T	□	R

CENTIMETER • KILOGRAM
KILOMETER • TANGENT • COMPOSITE
SEQUENCE

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

LAYER • COORDINATE
DEPENDENT VARIABLE • CONE
ADJACENT • FORMULA • SECOND
PENTAGONAL • ONE-FOURTH

Spell the missing numbers.

_____ +5	_____ +5
_____ twenty _____	_____

_____ +9	_____ +9
_____ eight _____	_____

_____ +4	_____ +4
_____ eighty-nine _____	_____

True, Not True, False, and Not FalseTrue TrueNot True FalseFalse FalseNot False True**With "AND" both need to be true.**True and False FalseTrue and True TrueFalse and True FalseFalse and False False

False _____

Not True _____

True _____

Not False _____

False and True _____

True and True _____

True and False _____

False and False _____

Write the missing family fact.

$69 + 31 = 100$

$31 + 69 = 100$

$100 - 69 = 31$

$18 \div 9 = \underline{\hspace{2cm}}$

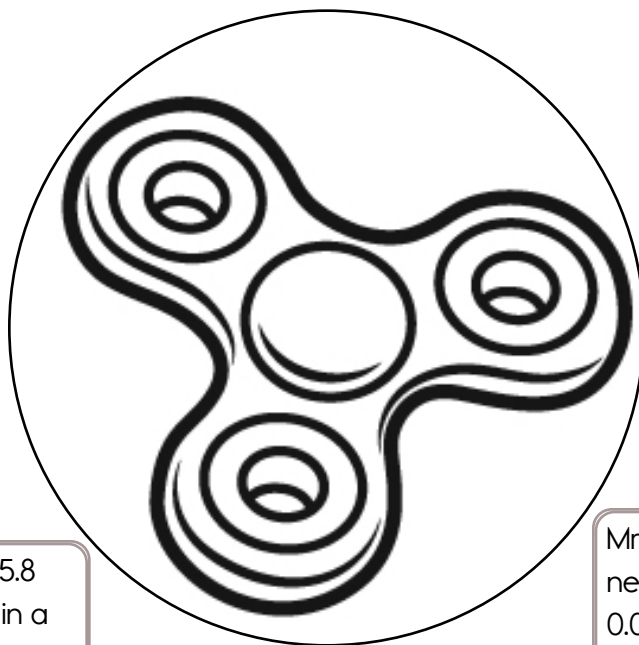
If you divide 58 by 3, you get a remainder of 1.

Make up three other different equations where you divide by 3 and get a remainder of 1.

$144 \div 12 = \underline{\hspace{2cm}}$

Jessica and her little sister, Mary, both have birthdays on the same day. Jessica is thirteen years old. Mary is eight years old. Did you know that Jessica was once double the age of Mary? How many years ago was that?

Use a scrap piece of paper.



How many times
do you need to spin?

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

How many boxes measuring 5.8 cm on each side can be put in a crate that measures 5 m x 2 m x 13 m?

Rosa planted a garden to grow her own vegetables for her meals. The garden is 23 feet long and 15 feet wide. What is the area of the garden?

The Midtown Thrift Shop had total sales of \$429.26. Of that amount, \$271.37 was for clothing. How much of the total sales was not for clothing?

A total of 498 people attended Harry Houdini's magic show. There were 30 more men than women present. How many were women?

The mass of Emma's notebook was 1 kilogram. She took out 277 grams of used paper. What was the mass of the notebook then?

Jessica bought a bag of brightly colored sour candies. There was $2\frac{3}{4}$ oz each of red, blue, yellow, and green candies. What was the total weight of the candies?

Alex used 51 pounds of apples to make apple pies for the Pie Day sale. How many ounces of apples did he use?

The AZX Bottling Company bottled 3,400 2-liter bottles of Zest cola. How many kiloliters of cola did the company bottle?

Mr. Bloop calculated that he needed to increase his savings by 0.028 every month, just to be on the safe side. What percent increase would that be equal to?

The mailman walked 3.09 km on his route. How many meters did he walk?

202 birds flew south on Wednesday, 157 flew south on Thursday and 401 on Friday. How many birds flew south during those three days?

Of the 90 people that attended the Life Evaluation Conference, there were 8 fewer males than females. How many females attended the conference?

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

Mrs. Taylor's recipe for haggis calls for $2\frac{3}{4}$ cups of stock and serves 12. How much stock will she need to make 4 servings of haggis?

Emma spends an average of 7.3 hours per week practicing her tap dance lessons. What is the average number of hours she spends practicing in a year?

It was such pandemonium! On Friday, 297 students brought their pets to school. A third of the pets were dogs. How many were not dogs?

Jason used 536 ounces of sugar to make cotton candy at the fair this year. How many pounds is 536 ounces?

There is only 0.4 of the lemon cream pie left in the pan. Write as a fraction the amount of pie left in the pan.

The ratio of Coke syrup to carbonated water is 1:5. How much carbonated water would be used to dilute 35.4 gallons of Coke syrup?

Jack spent \$9.81 for a cheese pizza and \$1.30 for each of the three toppings. How much did he spend in all?

Mr. Hall, a peanut farmer, has one hundred eleven rows of peanut plants. If there are twenty-nine plants in each row, how many peanut plants does he have?

While Yuko was in Japan, she bought a doll that cost 1,523 yen. How much did the doll cost in U.S. dollars? The exchange rate was 106.56 yen per dollar.

Justin ate $14 - 3x$ candy apples at the fair. If $x=3$, how many candy apples did Justin eat?

In the past year, the contributions to Children's Help United have doubled to \$103,833.51. What was the total of the contributions last year?

Ms. Garcia, the cook at our school, started making oatmeal for our breakfast at 6:37 a.m. The oatmeal was finished at 7:15 a.m. What was the elapsed time?

Mr. Martinez is building a stage for the public speaking contest. The stage is $20\frac{3}{4}$ feet wide and $15\frac{1}{4}$ feet long. What is the area of the stage?

Eric spent \$12.75 for a cheese pizza and \$1.40 for each of the two toppings. How much did he spend in all?

The Ames Nursery sold 558 houseplants in March, 844 in May, and 1949 in June. How many houseplants were sold in all?

What is 7% of 43?

Connor and Ava are a team. Connor makes robots and Ava fits them for fancy robot clothes. They have two models. Model One is very small at only 6.2 inches. The other is bigger but Connor only gave Ava a calculation as the robot is still in production. Connor wanted it to be 3 times the size of Model One, but it turns out the prototype is 6.2 inches shorter than that. How big is the prototype?

Put one line under the smallest number. Put two lines under the next smallest, and so on. The largest number should have 4 lines under it.

8.9

8.4

-3.3

-3.7

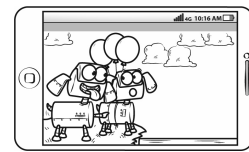
Anne rode her bike for 30 minutes. She went 4.3 miles. What is her speed in miles per hour?

742 - 257 = _____	Can 366 be evenly divided by 6? Circle: 366 is divisible by 6 366 is NOT divisible by 6
24 ÷ 8 = _____	

A bike originally priced at \$120 is marked down by 40%. What is the sale price?	294 + 326 = _____
	12 x 12 = _____
	10 x 9 = _____

What time is 14 hours after 5:00 a.m.? _____	Adam took three numbers greater than 1 and multiplied them. One number was five and the other number was thirteen. Of course, he forgot the last number, but he remembered the product was 163. Is this possible?
10 ÷ 2 = _____	

Circle the greatest number: 42,680,719,531 389,256,704 28,690 1,753,497,453	7 x 10 = _____
7 x 11 = _____	82,144 - 71,922 = _____



Robot dog is learning how to spell. Write each word and the balloon will pop.

Miss Meena typed:

```
Code1 = "TER"  
Code2 = "IN"  
Code3 = "CO"  
Code4 = "W"  
Code5 = "AT"  
print ("Word is ",Code4, Code2, Code1)
```

The computer replied:

W o r d i s
W I N T E R

```
C1 = "SA"  
C2 = "IN"  
C3 = "D"  
C4 = "O"  
C5 = "UR"  
print ("Word is ",C3,C2,C4,C1,C5)
```

```
C1 = "AD"  
C2 = "LI"  
C3 = "RE"  
C4 = "WE"  
C5 = "AY"  
print ("Word is ",C3,C1)
```

$30 \div 6 =$ _____	
$40 \div 4 =$ _____	$8 \times 11 =$ _____
$11 \times 3 =$ _____	$10 \times 2 =$ _____

Sudoku Sums of 9

Each row, column, and box must have the numbers 1 through 6. All six numbers must be used, and none can be repeated. 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:



		5		3	
4				2	
3					
			6		
	5	6			2

$$2 \overline{)18}$$

Fill in the missing fraction.

$$\frac{3}{8} , \frac{4}{8} , \underline{\hspace{1cm}} , \frac{6}{8}$$

Write 235 in expanded notation.

Color $\frac{5}{10}$.

What is the value of the BIG digit?

343,36**7**

30	10
+ 64	+ 63
-----	-----

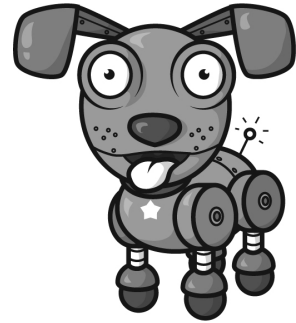
Directions:

Use the rule that
1 human year = 7 dog years
to fill in the blanks.



How many times
do you need to spin?

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



Spin fidget spinner. Quick! Do as many as you can before it stops.

Dog's Age: <u>51.1</u> Human Years: <u>7.3</u>	Dog's Age: <u>61.6</u> Human Years: _____	Dog's Age: <u>59.5</u> Human Years: _____	Dog's Age: <u>77</u> Human Years: _____
Dog's Age: <u>63</u> Human Years: _____	Dog's Age: _____ Human Years: <u>3</u>	Dog's Age: _____ Human Years: <u>1.1</u>	Dog's Age: _____ Human Years: <u>1</u>
Dog's Age: <u>15.4</u> Human Years: _____	Dog's Age: <u>48.3</u> Human Years: _____	Dog's Age: _____ Human Years: <u>7.7</u>	Dog's Age: <u>88.2</u> Human Years: _____
Dog's Age: _____ Human Years: <u>9.4</u>	Dog's Age: _____ Human Years: <u>10</u>	Dog's Age: <u>35</u> Human Years: _____	Dog's Age: <u>33.6</u> Human Years: _____
Dog's Age: _____ Human Years: <u>12.2</u>	Dog's Age: <u>14</u> Human Years: _____	Dog's Age: <u>79.8</u> Human Years: _____	Dog's Age: _____ Human Years: <u>12</u>

Dr. Programmer knows how to program with his computer. He uses the STAR key, which is *. On a computer you have to press Shift and 8 at the same time to type that. How confusing!

5 times 2 is written $5 * 2$ on his computer.



Miss Meena typed:

```
print (11 * 9)
```

```
print (6 * 4)
```

```
print (11 + 3)
```

```
print (36 + 23)
```

```
A = 8  
B = 11  
print (A * B)
```

```
A = 6  
print (A * 8)
```

```
A = 305  
B = 8  
C = A - B  
print (C)
```

```
A = 597  
B = 7  
C = A - B  
print (C)
```

The computer replied:

```
99
```

```
---
```

```
---
```

```
-----
```

```
Girls = 20
Boys = 17
Diff = Girls - Boys
print ("Our class has ",Diff," more girls than boys.")
```

```
_____
_____
_____ s _____
_____
```

```
N1 = 4
N2 = 8
N3 = N1 * N2
N4 = N3 + 2
print ("N4 = ",N4)
```

```
_____
```

```
N1 = 2
N2 = 9
N3 = N1 * N2
N4 = N3 + 2
print ("N4 = ",N4)
```

```
_____
```

Can 270 be evenly divided by 9? Circle:
 270 is NOT divisible by 9
 270 is divisible by 9

844 - 575 = _____

70 ÷ 7 = _____

956 - 237 = _____

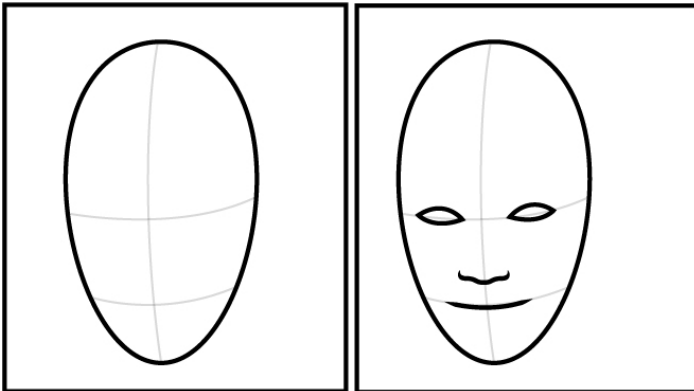
The (make-believe) country of Slowmonia is always super slow. But they are hard working and after 25 years of research, the country of Slowmonia launched a rocket into space to land on Pluto. It is slow! It travels 3.027 kilometers in a month. How far will it travel in 19 years?

Anna got a summer job working on an app where people post pictures of their pets. This week they had 10,000 pictures posted. Of those pictures, 55% were dogs. How many pictures of dogs did they get this week?

Erin is trying to learn decimals. She only knows fractions. She's known fractions since she was 3. Now she is trying to learn decimals. Help her convert $\frac{9}{10}$ to a decimal.

Emily lives at the point $(-11, -3)$. She wants to go to the closest mall. There are two malls on the map. One is at $(-11, -4)$ and the other is at $(-11, -14)$. Which is closer to her?

<p>You cannot decide what pizza store to go to. Megan's pizza cuts their pizza into 5 slices. Each slice costs \$3 each. Holly's pizza cuts their pizza into 3 slices. Each slice costs \$4 each. If you like each pizza the same, which pizza store has the better buy?</p>	$33 \div 11 = \underline{\hspace{2cm}}$	$11 \times 4 = \underline{\hspace{2cm}}$
$132 \div 11 = \underline{\hspace{2cm}}$	<p>What should replace the B in this equation?</p> $B \div 4 + 37 = 40$	$90 \div 9 = \underline{\hspace{2cm}}$
<p>The number 4778 is a palindrome. Any number which reads the same in both directions is a palindrome number.</p> <p>Jenna is thinking of a palindrome number. The digits, 224, are a part of the number in this exact order.</p> <p>The number is less than 500,000.</p> <p>The number has 6 digits.</p> <p>The number is greater than 400,000.</p> <p>The sum of the first three digits in the number is 15.</p> <p>What is her number?</p>	$132 \div 11 = \underline{\hspace{2cm}}$	$30 \div 10 = \underline{\hspace{2cm}}$
$64 \div 8 = \underline{\hspace{2cm}}$		$16 \div 4 = \underline{\hspace{2cm}}$



Draw it.
What can you add to your picture?

I added _____

Here is a pattern of letters:

J A J J A J J ...

What letter will be the 22th term in the pattern?

$$80 \div 8 = \underline{\hspace{2cm}}$$

$$3 \times 11 = \underline{\hspace{2cm}}$$

$$22,873 + 68,552 = \underline{\hspace{2cm}}$$

$$24 \div 4 = \underline{\hspace{2cm}}$$

Hannah rolls two dice. What is the chance of her rolling a 5 on one die and a 6 on the other die?

$$40 \div 10 = \underline{\hspace{2cm}}$$



Spin fidget spinner. Quick! Do as many as you can before it stops.

Not Exact

Estimate - With a Good Guess

$94 \div 28 \approx \underline{3}$

$323 \div 50 \approx \underline{6}$

$372 \div 41 \approx \underline{\quad}$

$65 \div 14 \approx \underline{\quad}$

$110 \div 15 \approx \underline{\quad}$

$102 \div 12 \approx \underline{\quad}$

$217 \div 40 \approx \underline{\quad}$

$141 \div 17 \approx \underline{\quad}$

$122 \div 16 \approx \underline{\quad}$

$186 \div 33 \approx \underline{\quad}$

$157 \div 43 \approx \underline{\quad}$

$201 \div 47 \approx \underline{\quad}$

$237 \div 39 \approx \underline{\quad}$

$462 \div 49 \approx \underline{\quad}$

$62 \div 10 \approx \underline{\quad}$

$346 \div 35 \approx \underline{\quad}$

$159 \div 47 \approx \underline{\quad}$

$84 \div 19 \approx \underline{\quad}$

$299 \div 50 \approx \underline{\quad}$

$210 \div 26 \approx \underline{\quad}$

$113 \div 15 \approx \underline{\quad}$

$34 \div 11 \approx \underline{\quad}$

$146 \div 21 \approx \underline{\quad}$

$190 \div 41 \approx \underline{\quad}$

$71 \div 14 \approx \underline{\quad}$

$293 \div 35 \approx \underline{\quad}$

$72 \div 10 \approx \underline{\quad}$

Name _____



July _____
Date _____

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 circle. No stopping on an empty box.** Try to collect all the circles and end your last line on the **E** circle. You can go through a circle more than once.

B					●			●		
			●				●	●		
					●		●			●
	●		●	●	●		●			
	●				●					
			●						E	
								●		
							●	●		
●					●					●

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

"Or" Questions:

```
if (true or false)
  print ("We have one true so it is true.");
else:
  print ("Everything is false so it is false");
```

The computer will print:

```
We have one
true so it
is true.
```

```
A = false or true;
print (A);
```

```
true
```

```
A = true or false;
print (A);
```

```
A = false or false;
print (A);
```

```
A = not (false);
print (A);
```

```
A = not (true or true);
print (A);
```

```
A = not (true or false);
print (A);
```

```
a="February";
```

```
if (a=="January") or (a=="February")
  print ("You are in group 1.");
```

```
if (a=="March") or (a=="April")
  print ("You are in group 2.");
```

```
-----
-----
```

P = "Brazil";

if (P=="Canada") or (P=="Mexico") or (P=="US")
 print ("That is in North America.");

else:

print ("I am not sure where that is.");

print("Need a NOT");

A = not (true or true or false);
 print (A);

A = not (not(true));
 print (A);

Three girls ran a race.
 Ava was not as fast as Emily.
 Emily ran past Jenna in the
 race and Jenna never
 caught up.
 Who won the race? Do you
 have enough information to
 know?

$485 + 619 =$ _____

$72 \div 8 =$ _____

$6 \times 9 =$ _____

$5 \times 4 =$ _____

$5,791 - 2,878 =$ _____

Express $\frac{5}{17}$ as a repeating decimal.

Pam and Amy have a secret way of sending numbers to each other. Pam plots a point on a grid. Pam plotted these points and wrote T. That means the numbers she wants is the point that will be farthest to the top. Circle that point. While you are at it, put a rectangle around the point farthest to the right! Show your work.

(19, 6)

(9, 7)

(10, 10)

(13, 5)

If you take the first number and subtract it by the second, the difference is 15.

What are the two numbers?

Zeeka has invented a new space vehicle to go from his home planet of Zomba to his friend's planet of Oomba. It is a fun ride! It can fly at a speed of 720 mph. How far will it go in 20 minutes?

This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.

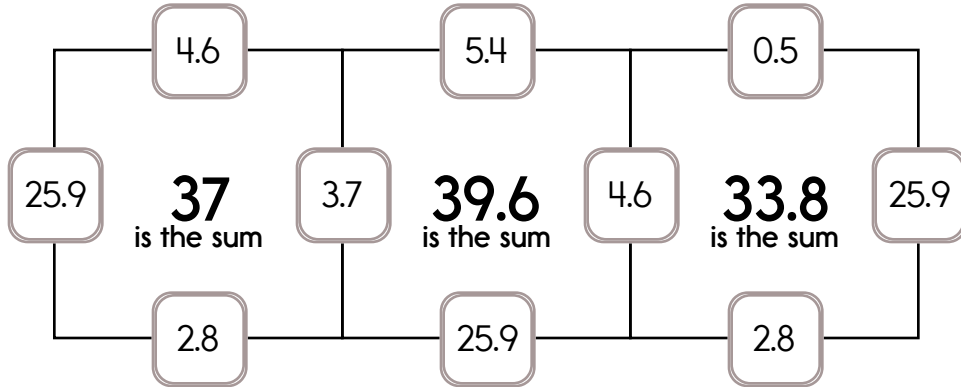
Example:

$$25.9 + 3.7 + 4.6 + 2.8 = 37$$

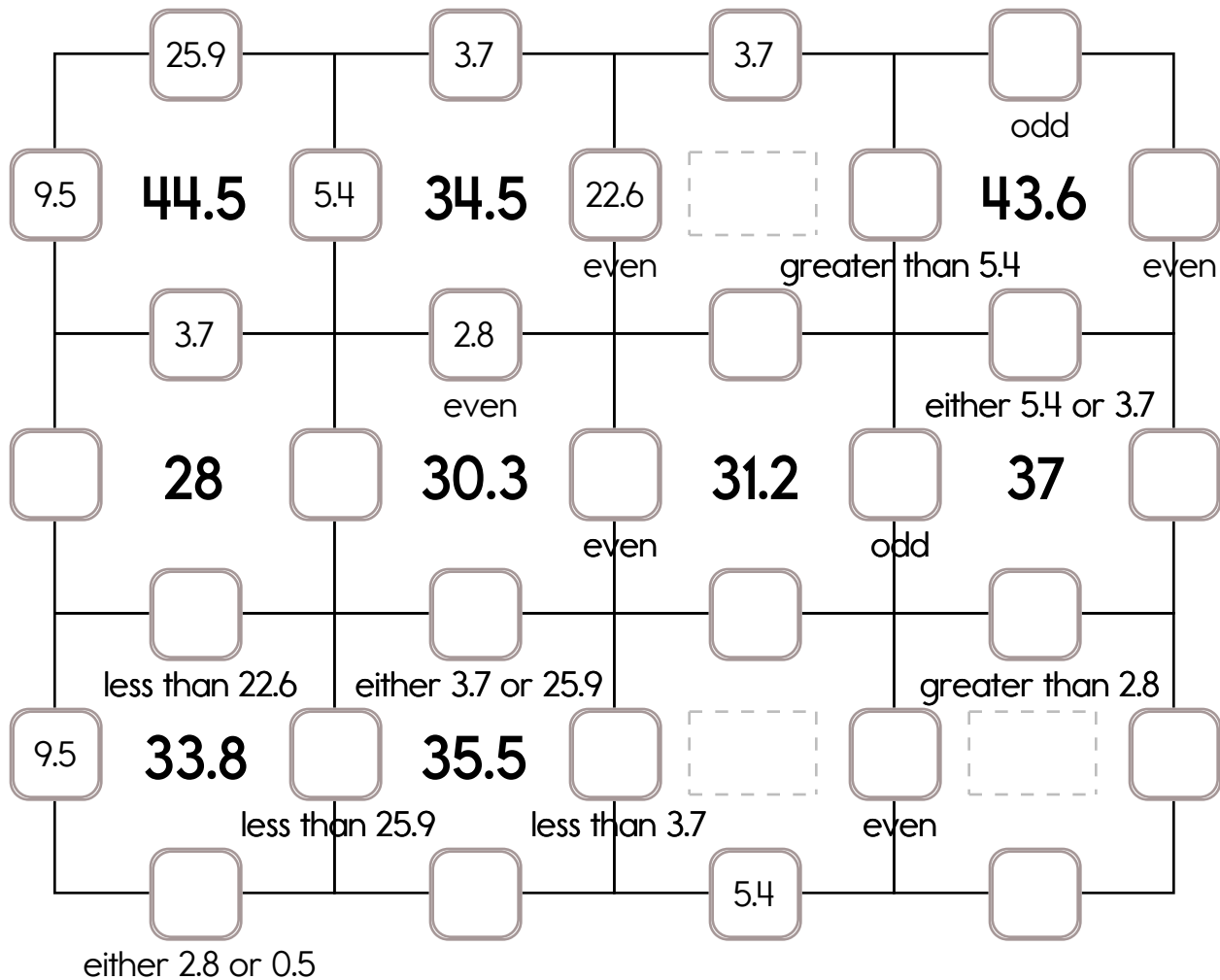
Example:

$$4.6 + 25.9 + 0.5 + 2.8 = 33.8$$

Sample:



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: 18.4, 25.9, or 22.6. The other three numbers have to all be DIFFERENT and can be from these numbers: 5.4, 3.7, 9.5, 2.8, 4.6, or 0.5.



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: 14.5, 28.9, or 17.5. The other three numbers have to all be DIFFERENT and can be from these numbers: 8.9, 1.2, 5.4, 3.9, 4.8, 7.9, or 0.5.

	0.5		3.9					
		greater than 1.2		greater than 0.5		odd		
14.5	31.8	7.9	45.5	28.9	49.6		35.5	8.9
						odd		
	8.9						odd	
				greater than 7.9				
0.5	31.8		28.4		36.1		28.4	
		even		odd		either 14.5 or 17.5		less than 17.5
	less than 28.9		either 1.2 or 17.5		even		less than 17.5	
	38.2				43.8		45.5	3.9
		odd		even		even		
	greater than 1.2		odd		greater than 0.5		either 7.9 or 14.5	
	49.6		31.1		27.4		29.8	
		odd		greater than 3.9		either 28.9 or 17.5		
	even		even		either 3.9 or 0.5		either 14.5 or 0.5	
	33		29					
				less than 8.9				odd
	greater than 1.2		either 7.9 or 28.9				even	

"Or" Questions:

```

Team1=3
Team2=5
print ("Who won the soccer game?")
if Team1 > Team2
    print ("Team1 did")
if Team2 > Team1
    print ("Team2 did")

```

The computer will print:

Who won the
soccer game?
Team2 did

```

Won_By = Team2 - Team1
if Won_By == 1
    print ("They won by 1 goal.")
if Won_By > 1
    print ("They won by ",Won_By," goals.")

```

___e___w___
___a___s___

```

left_at = "kitchen";
print ("Where is my phone?")
if (left_at == "kitchen")
    print ("Maybe by the refrigerator?")
if (left_at == "car")
    print ("It is still in the car!")

```

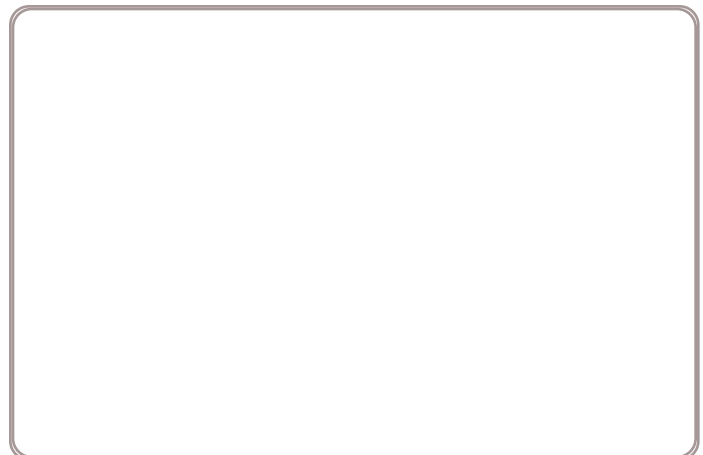


```

Today_Is = "Tuesday"

if (Today_Is == "Monday")
    print ("soccer skills practice")
if (Today_Is == "Tuesday")
    print ("volleyball practice")
if (Today_Is == "Wednesday")
    print ("playdate?")

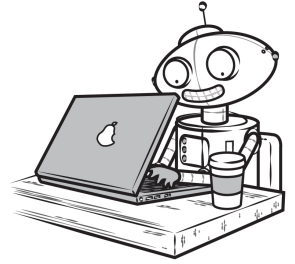
```



$12 \times 3 = \underline{\hspace{2cm}}$	<p>April told Ava that she multiplied two consecutive whole numbers and the answer is 90. Ava doesn't believe that is possible. She thinks Ava must have multiplied wrong. Who is correct?</p>	$99 \div 9 = \underline{\hspace{2cm}}$
$6 \times 3 = \underline{\hspace{2cm}}$		

<p>Hannah got a new soccer shirt. Can you guess the number on the back of her shirt?</p> <p>It has two digits. The digits add up to 6. The larger digit is 2 more than the smaller digit. The number is even.</p>	$8 \times 2 = \underline{\hspace{2cm}}$	$3 \times 11 = \underline{\hspace{2cm}}$

<p>Maria likes to change numbers into a secret letter form. Maria changed the number 764 to SSS. Maria changed the number 23,295 to SSSSS. Maria changed the number 337,169 to SSSSSS. Maria changed the number 3,531 to SSSS. How do you think she would change the number 56?</p> <p>_____</p>	$5 \times 11 = \underline{\hspace{2cm}}$	$2 \times 7 = \underline{\hspace{2cm}}$
	$11 \times 2 = \underline{\hspace{2cm}}$	



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

"Or" Questions:

```
A = 8444
B = 100
C = A + B
print ("The number that is ",
       B," more than ",A," is ",C)
```

The computer will print:

```
The number that
is 100 more than
8444 is 8544
```

```
A = 1034
B = 10
C = A + B
print ("The number that is ",
       B," more than ",A," is ",C)
```

```
The number that
is 10 more than
1034 is 1044
```

```
A = 8875
B = 100
C = A + B
print ("The number that is ",
       B," more than ",A," is ",C)
```

```
-----
-----
-----
```

```
A = 7551
B = 10
C = A + B
print ("The number that is ",
       B," more than ",A," is ",C)
```

```
-----
-----
-----
```

A = 41188
 B = 1000
 C = A + B
 print ("The number that is ",
 B," more than ",A," is ",C)

A = 35172
 B = 10000
 C = A + B
 print ("The number that is ",
 B," more than ",A," is ",C)

A = 5584
 B = 100
 C = A + B
 print (B," more than ",A," is ",C)

A = 3715
 B = 10
 C = A + B
 print (B," more than ",A," is ",C)

A = 44462
 B = 1000
 C = A + B
 print (B," more than ",A," is ",C)

8 x 4 = _____

Put one line under the smallest number. Put two lines under the next smallest, and so on. The largest number should have 4 lines under it.

11.2

11.6

-10.5

-10.4

Rose lives at the point $(3, -7)$. She wants to go to the closest mall. There are two malls on the map. One is at $(17, -15)$ and the other is at $(4, -16)$. Which is closer to her?

Express $\frac{2}{7}$ as a repeating decimal.

Robert took a big bowl from the kitchen to see what kind of fun party mix he could create.

He added: $\frac{3}{8}$ cup of raisins, $2\frac{1}{2}$ cups of Goldfish crackers, and $1\frac{1}{3}$ cups of pretzels.

How much food is now in the bowl?

For this page calculate a dog's life as follows:

First year of dog's life is 15 human years.

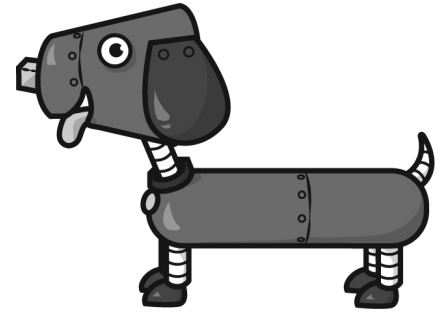
Second year of dog's life is 9 human years.

Every other year of dog's life is 5 human years.



How many times do you need to spin?

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



Spin fidget spinner. Quick! Do as many as you can before it stops.

Human Years: <u> 1 </u> Dog's Age: <u> 15 </u>	Human Years: <u> 3 </u> Dog's Age: <u> </u>	Human Years: <u> 5 </u> Dog's Age: <u> </u>	Human Years: <u> 12 </u> Dog's Age: <u> </u>
Human Years: <u> 6 </u> Dog's Age: <u> </u>	Human Years: <u> </u> Dog's Age: <u> 64 </u>	Human Years: <u> 5 </u> Dog's Age: <u> </u>	Human Years: <u> </u> Dog's Age: <u> 69 </u>
Human Years: <u> 8 </u> Dog's Age: <u> </u>	Human Years: <u> </u> Dog's Age: <u> 34 </u>	Human Years: <u> 4 </u> Dog's Age: <u> </u>	Human Years: <u> 9 </u> Dog's Age: <u> </u>
Human Years: <u> </u> Dog's Age: <u> 24 </u>	Human Years: <u> 12 </u> Dog's Age: <u> </u>	Human Years: <u> </u> Dog's Age: <u> 49 </u>	Human Years: <u> </u> Dog's Age: <u> 29 </u>
Human Years: <u> 1 </u> Dog's Age: <u> </u>	Human Years: <u> 6 </u> Dog's Age: <u> </u>	Human Years: <u> </u> Dog's Age: <u> 59 </u>	Human Years: <u> </u> Dog's Age: <u> 49 </u>

Phone App: Basketball Shoot and Loser Runs!

Dr. Programmer is working on a new app.
 He needs your help to get everything working correctly.
 The app needs to count points.



Dr. Programmer Codes This:

```
def Missed():
    print ( "Missed" )

def Scored():
    print ( "Score!" )
    Total Points = Total Points + 2

Total Points = 0
Missed()
Scored()
Scored()
```

Phone App Does This:

Missed
Score!
Score!

```
Total Points = 0
Scored()
Missed()
Missed()
Missed()
```



```
Total Points = 0
Scored()
Scored()
Missed()
Scored()
```




```
def Missed():
    print ( "Urr" )

def Scored():
    print ( "Score!" )
```

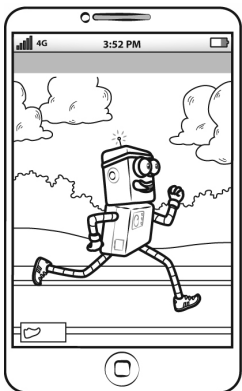
```
Total Points = 0
Scored()
Scored()
Missed()
print ("Score: ",Total Points)
```

Score!
Score!
Urr
Score: 4

```
Total Points = 0
Scored()
Scored()
print ("Score: ",Total Points)
```



```
Total Points = 0
Missed()
Scored()
Missed()
print ("Score: ",Total Points)
```



**Now Robert needs to do one LAP
 for each point that Sally got.**



```
def Missed():
    Total Points = Total Points + 0

def Scored():
    Total Points = Total Points + 2

def Robert Runs():
    Lap Counter = 0
    i = 0. Loop by 1s. Stop before Total Points.
    Lap Counter = Lap Counter + 1 Loop
    print ("Lap ",Lap Counter)

Total Points = 0
Missed()
Scored()
Scored()
Robert Runs()
```

Lap 1

Lap 2

Lap 3

Lap 4

```
Total Points = 0
Scored()
Robert Runs()
```

____ _ _
____ _ _

```
Total Points = 0
Scored()
Missed()
Scored()
Scored()
Robert Runs()
```

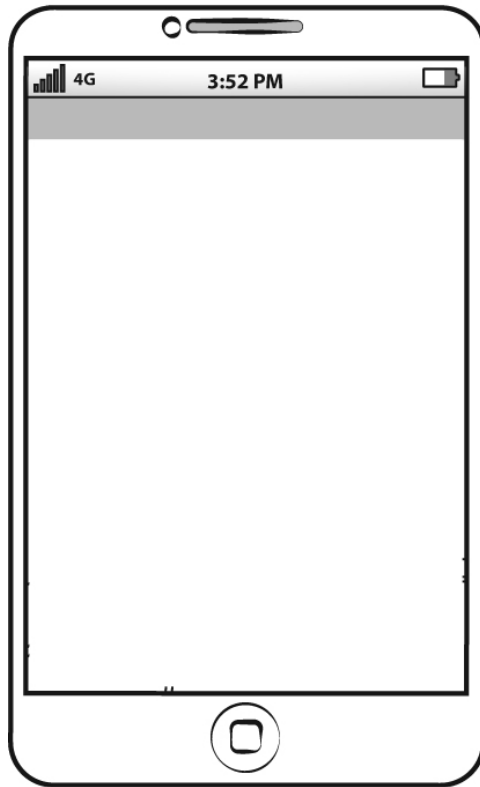
5,813 + 8,918 = _____



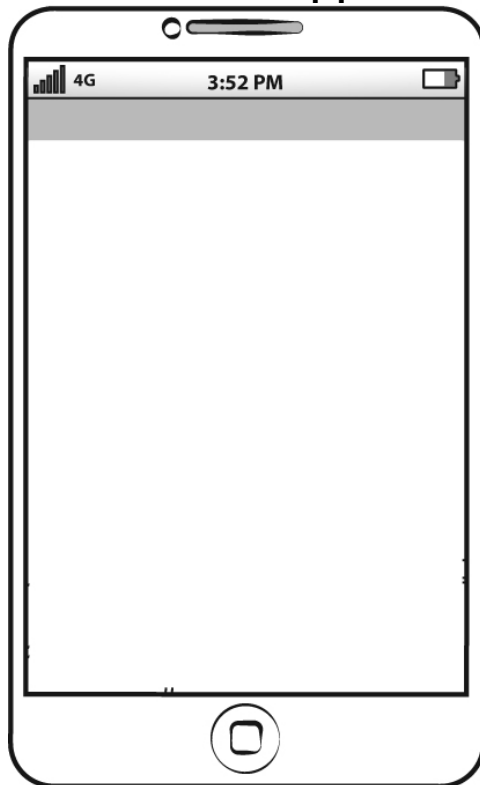
July _____

edHelper

**Bonus round! Try to touch all the basketballs without touching any lines.
Draw this bonus round:**



Draw the "Game Over" screen for the app.



SALLY'S GOOD FOOD RESTAURANT

Regular Burger	5.25	Cool Dude Meal	4.50
Super-Sized Burger	3.95	Mac and Cheese	6.75
Burger Jr.	2.50		
Chicken Nuggets	4.25	Water	1.25
Crispy Chicken Sandwich	7.30	Juice	1.35
		Lemonade	1.50
French Fries	2.25		
Onion Rings	1.75		

John and Billy went to Sally's Good Food Restaurant. They each ordered a regular hamburger. John got a side mac and cheese with juice. Billy wanted fries and the Cool Dude meal along with water. The food was so good, and they had such a great time that they didn't realize the waiter already left a bill.

"I'll pay," said John. He left exactly enough money for the food along with a 20% tip for the waiter.

How much money did he leave?

Show your work.

$36\frac{3}{8}$	$-\frac{1}{3}$		$-2\frac{2}{3}$
	+50		$-\frac{3}{8}$
-3			
+17			
	$+\frac{2}{8}$		+35

$+\frac{6}{8}$		+18	
			$+\frac{2}{3}$
-29		$-7\frac{1}{3}$	
$-4\frac{1}{3}$		+9	
		$+\frac{4}{8}$	$177\frac{1}{2}$

25	$+8\frac{2}{3}$		$-\frac{6}{11}$
	-15		+25
$-\frac{9}{11}$			
	+57		-1

$-\frac{1}{3}$	$95\frac{16}{33}$	-5		-51
$-2\frac{9}{11}$		$+3\frac{2}{3}$		$+\frac{2}{11}$
$98\frac{7}{11}$				
$+\frac{1}{3}$		+11	$54\frac{1}{3}$	

Rewrite this mixed number as an improper fraction.

$$14 \frac{7}{9}$$

Fill in the blanks with $>$, $=$, or the $<$ sign.

$$-360 \quad \underline{\hspace{1cm}} \quad 4,200$$

$$59 \quad \underline{\hspace{1cm}} \quad -51$$

$$-42 \quad \underline{\hspace{1cm}} \quad -45$$

$$16 \quad \underline{\hspace{1cm}} \quad -8$$

Sarah got a summer job working on an app where people post pictures of their pets. This week they had 10,000 pictures posted. Of those pictures, 43% were dogs. How many pictures of dogs did they get this week?

Alex has a headache. He can't stand run-on sentences. "Can you repeat that again?" he asks.

"It's easy. Name a number that is greater than 5, less than 13, is a multiple of 7, and FINALLY is a factor of 28," replies Nathan.

Jessica is trying to learn decimals. She only knows fractions. She's known fractions since she was 3. Now she is trying to learn decimals. Help her convert $\frac{2}{5}$ to a decimal.

In each group, circle the number that has the greatest value and put a square around the number that has the least value.

6^5

6^2

6^3

7^6

7^3

7^1



How many times
do you need to spin?

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

Spin fidget spinner. Quick! Do as many as you can before it stops.

$$6 - 5 + 99 \div 9 + 1 = \underline{\quad}$$

$$4 - 1 - 3 + 8 - 8 = \underline{\quad}$$

$$(5 \times 6) \times 6 - 2 + 6 = \underline{\quad}$$

$$2 + 7 + 63 \div 9 = \underline{\quad}$$

$$3 + 80 \div 8 + 1 = \underline{\quad}$$

$$(1 \times 8 + 9) \times 9 = \underline{\quad}$$

$$7 + 60 \div 5 \times 2 - 7 = \underline{\quad}$$

$$9 \times 6 + 1 + 7 \times 5 = \underline{\quad}$$

$$7 - 4 + 2 \times 1 + 3 = \underline{\quad}$$

$$8 \times 4 + 3 \times 1 = \underline{\quad}$$

$$(1 + 1) + 8 - 9 + 6 = \underline{\quad}$$

$$7 + 99 \div 11 + 7 = \underline{\quad}$$

$$5 \times 8 + 32 \div 8 = \underline{\quad}$$

$$1 \times (7 \times 8) \times 6 - 2 = \underline{\quad}$$

$$1 \times 9 - 8 + 20 \div 10 = \underline{\quad}$$

$$7 \times 6 \times 5 - 6 = \underline{\quad}$$

$$7 \times 6 - 8 \times 2 = \underline{\quad}$$

$$6 + 16 \div (2 + 2) = \underline{\quad}$$

$$3 + 8 - 1 + 6 + 1 = \underline{\quad}$$

$$8 \times 5 - 6 - 9 = \underline{\quad}$$

$$4 + 5 + 2 \times 8 \times 6 = \underline{\quad}$$

$$3 \times (7 + 4 - 7) = \underline{\quad}$$

$$1 + 3 - 3 + 3 = \underline{\quad}$$

$$4 + 7 \times 2 \times 5 = \underline{\quad}$$

$$3 - 2 + 4 - 4 = \underline{\quad}$$



Patterns

Dr. Programmer Codes This:

```
# Trying to make a pattern.
# Does this work?
A = 9
B = 4
C = A + B
D = C + B
E = D + B
print ("This pattern counts by ", B)
print ("The pattern is ",A," ",B," ",C);
```

Phone App Does This:

This pattern
counts by 4
The pattern
is 9 . 4 . 13

```
A = 8
B = 2
C = A + B
D = C + B
E = D + B
print ("This pattern counts by ", B)
print ("The pattern is ",A," ",B," ",C);
```

```
A = 9
B = 3
C = A + B
D = C + B
E = D + B
print ("The pattern is ",A," ",B," ",C);
```

The pattern is
9 . 3 . 12

```
A = 7
B = 4
C = A + B
D = C + B
E = D + B
print ("The pattern is ",A," ",B," ",C);
```

h -----

----- 1



```
A = 9
B = 4
C = A + B
D = C + B
E = D + B
print ("The pattern is ",A," ",B," ",C);
```

 h t e s


```
ADDTO = 4
STARTNUM = 8
NUM2 = STARTNUM + ADDTO
NUM3 = NUM2 + ADDTO
NUM4 = NUM3 + ADDTO
print (STARTNUM," ",NUM2," ",NUM3," ",NUM4)
```

 8 . 12 . 16
 . 20

```
ADDTO = 3
STARTNUM = 6
NUM2 = STARTNUM + ADDTO
NUM3 = NUM2 + ADDTO
NUM4 = NUM3 + ADDTO
print (STARTNUM," ",NUM2," ",NUM3," ",NUM4)
```

 6 2
 1

```
ADDTO = 3
STARTNUM = 7
NUM2 = STARTNUM + ADDTO
NUM3 = NUM2 + ADDTO
NUM4 = NUM3 + ADDTO
print (STARTNUM," ",NUM2," ",NUM3," ",NUM4)
```


$$141 + 176 = \underline{\hspace{2cm}}$$

$$63 \div 7 = \underline{\hspace{2cm}}$$

Hannah and Wendy have a secret way of sending numbers to each other. Hannah plots a point on a grid. Hannah plotted these points and wrote B. That means the numbers she wants is the point that will be farthest to the bottom. Circle that point. While you are at it, put a rectangle around the point farthest to the right! Show your work.

 $(6, 11)$ $(9, 15)$ $(11, 20)$ $(10, 3)$

Rewrite these numbers in order from greatest to least.

 -3 -4 -3.348 -4.084 -3.3

Emma needs to make these two fractions equal. Help her find the missing number!

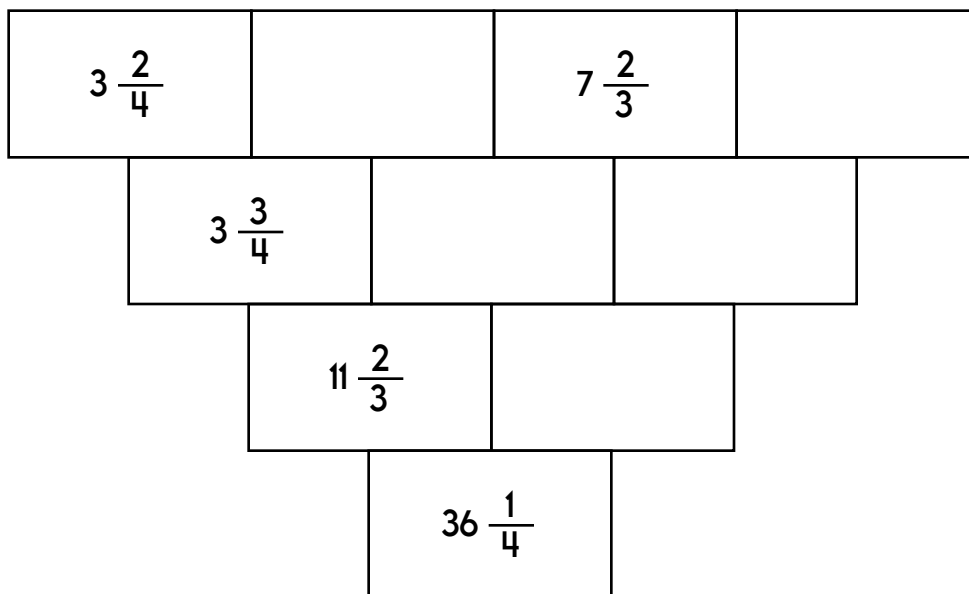
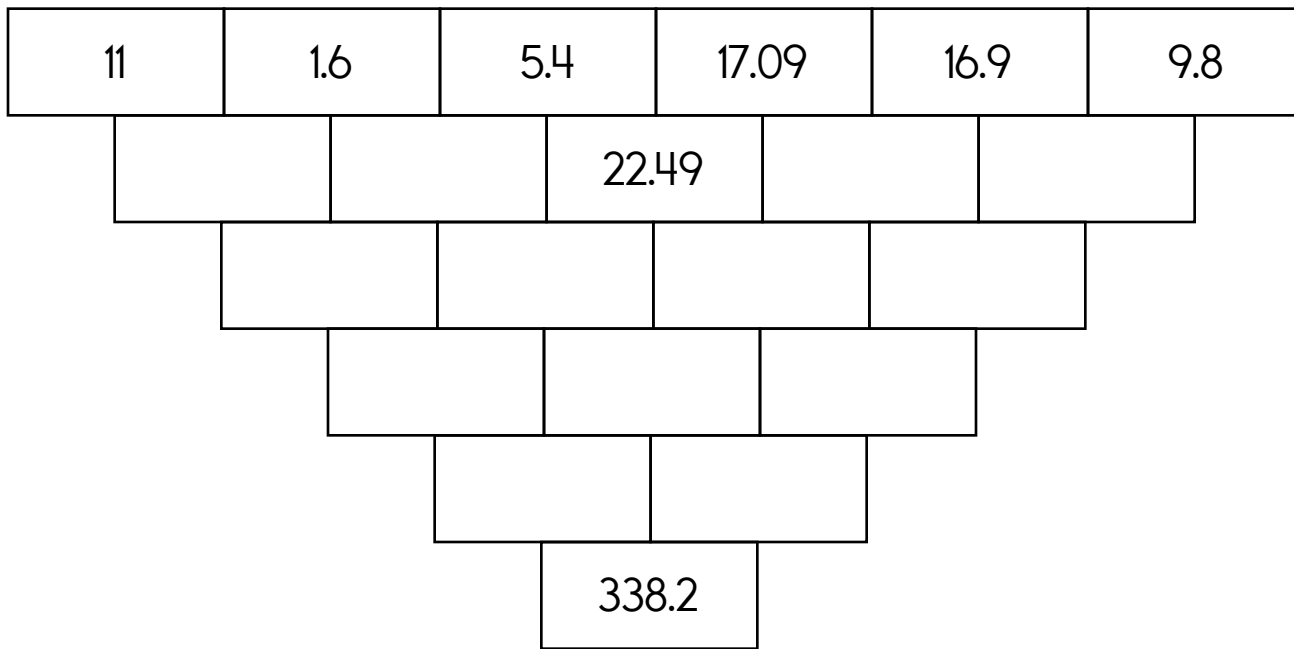
$$\frac{12}{24} = \frac{32}{??}$$

The area of a square is 38.44 square inches. What is its perimeter?

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: 19.5, 18.6, or 16.9. The other three numbers have to all be DIFFERENT and can be from these numbers: 8.4, 9.1, 7.1, 0.9, 4.5, 6.7, or 3.2.

	19.5		0.9				
				even			
7.1	44.1	8.4	37.9	19.5	39.8		40.6
			greater than 16.9		greater than 3.2		
	9.1			9.1			
		greater than 3.2				less than 19.5	
	44.1		38.9	16.9	30.1		35.3
		even			even		either 4.5 or 16.9
	greater than 6.7		either 4.5 or 6.7		either 16.9 or 3.2		greater than 8.4
0.9	33.3		33.3		32		
		even		greater than 3.2		less than 6.7	
	even				even		greater than 0.9
	31.7		33.3		32.4		31.7
		either 7.1 or 18.6		even		even	odd
	odd				even		less than 9.1
	33.7		35.2				
greater than 3.2				odd		even	less than 16.9
	either 9.1 or 8.4		even		greater than 6.7		

The block below is the sum of the two blocks above. Fill in the missing blocks.



$45 \div 9 =$ _____	$11 \times 2 =$ _____
$6 \times 7 =$ _____	

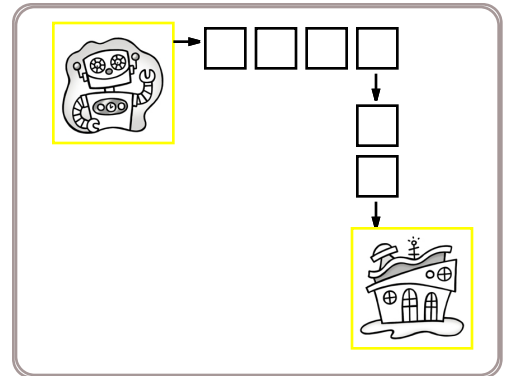
go_down (how many squares) The robot will go down this many squares.

go_right (how many squares) The robot will go right this many squares.

Secret map:

```
print_robot()
go_right ( 4 )
go_down ( 2 )
print_robot_home()
```

Draw the map:

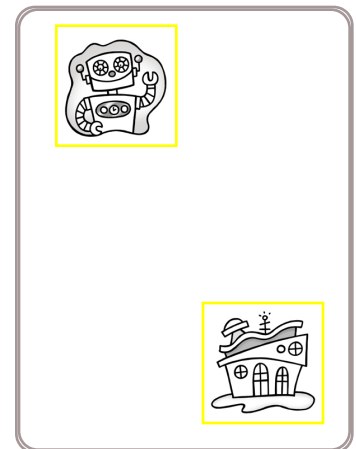


Robot moved 6 squares.

Secret map:

```
print_robot()
go_right ( 1 )
go_down ( 3 )
print_robot_home()
```

Draw the map:

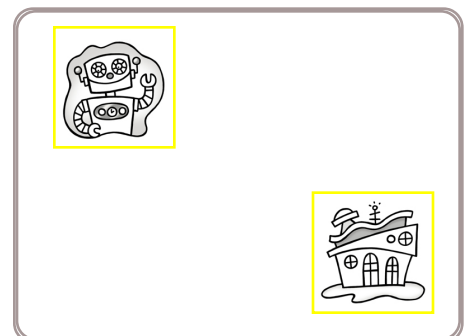


Robot moved _____ squares.

Secret map:

```
print_robot()
go_right ( 3 )
go_down ( 1 )
print_robot_home()
```

Draw the map:

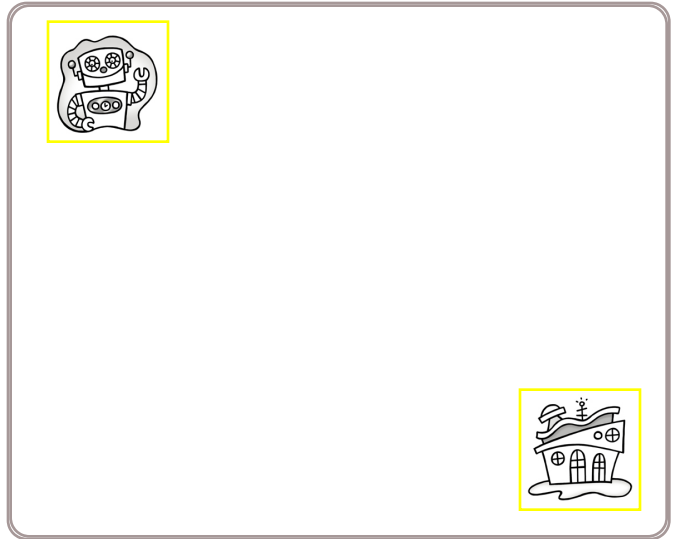


Robot moved _____ squares.

Secret map:

```
print_robot()
go_down ( 2 )
go_right ( 3 )
go_right ( 1 )
go_right ( 3 )
go_down ( 1 )
print_robot_home()
```

Draw the map:

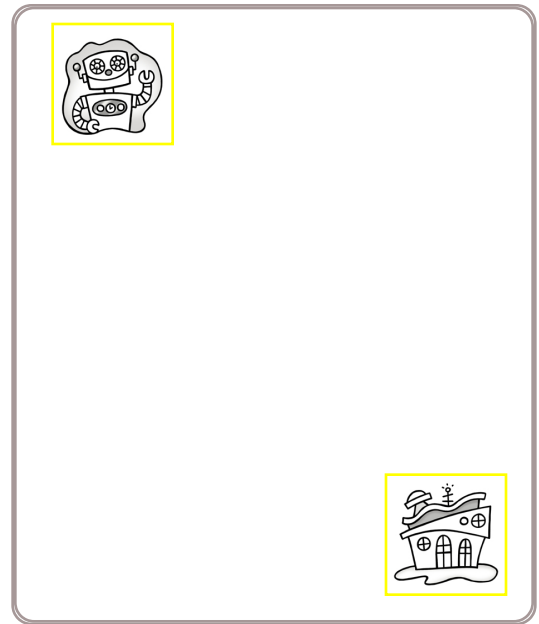


Robot moved _____ squares.

Secret map:

```
print_robot()
go_down ( 1 )
go_down ( 2 )
go_right ( 2 )
go_right ( 3 )
go_down ( 1 )
print_robot_home()
```

Draw the map:



Robot moved _____ squares.

$6 \div 3 = \underline{\hspace{2cm}}$	$60 \div 5 = \underline{\hspace{2cm}}$
$132 \div 12 = \underline{\hspace{2cm}}$	

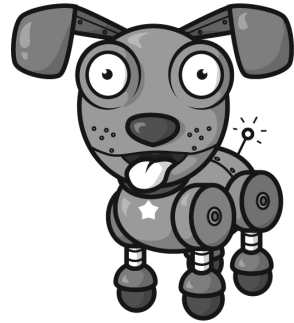
Directions:

Use the rule that
1 human year = 7 dog years
to fill in the blanks.



How many times
do you need to spin?

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



Spin fidget spinner. Quick! Do as many as you can before it stops.

Human Years: <u>4</u> Dog's Age: <u>28</u>	Human Years: <u>$15 \frac{7}{12}$</u> Dog's Age: _____	Human Years: <u>12.6</u> Dog's Age: _____	Human Years: <u>10</u> Dog's Age: _____
Human Years: <u>$4 \frac{3}{12}$</u> Dog's Age: _____	Human Years: _____ Dog's Age: <u>$16 \frac{11}{12}$</u>	Human Years: _____ Dog's Age: <u>70</u>	Human Years: _____ Dog's Age: <u>19.6</u>
Human Years: <u>$16 \frac{3}{12}$</u> Dog's Age: _____	Human Years: <u>8</u> Dog's Age: _____	Human Years: <u>7</u> Dog's Age: _____	Human Years: <u>$3 \frac{1}{2}$</u> Dog's Age: _____
Human Years: <u>11.7</u> Dog's Age: _____	Human Years: _____ Dog's Age: <u>35</u>	Human Years: _____ Dog's Age: <u>$51 \frac{11}{12}$</u>	Human Years: _____ Dog's Age: <u>31.5</u>

Fill in the missing numbers.

$$25 - (-6) = \underline{\hspace{2cm}}$$

$$24 - (\underline{\hspace{2cm}}) = 27$$

$$\underline{\hspace{2cm}} + (-2) = 21$$

$$-15 - (-4) = \underline{\hspace{2cm}}$$

$$-20 - (\underline{\hspace{2cm}}) = -15$$

$$-18 + (\underline{\hspace{2cm}}) = -25$$

Give two answers for x in each equation.

$$|x + 11| = 17$$

$$|x - 19| = 31$$

Hunter and April are a team. Hunter makes robots and April fits them for fancy robot clothes. They have two models. Model One is very small at only 5.5 inches. The other is bigger but Hunter only gave April a calculation as the robot is still in production. Hunter wanted it to be 3 times the size of Model One, but it turns out the prototype is 5.5 inches shorter than that. How big is the prototype?

If you take the first number and subtract it by the second, the difference is 29.

What are the two numbers?

Fill in each box of the edHelperKu puzzle, using the numbers from 1 to 6.

Every row must contain the numbers 1, 2, 3, 4, 5, and 6.

Every column must contain the numbers 1, 2, 3, 4, 5, and 6.

In a cage with a plus sign, the given number will be the sum of all the digits in the cage.

In a cage with a subtraction sign, the given number will be the difference. The largest number will always be the box with the clue.

12+	6	9+	2		1
	4	6+		1-	1-
4-		1-			
1	3-		13+		
1-		5	13+	12+	
1-					2

Fill in the blanks. These equations are from the puzzle above.

$2 - \underline{\quad} = 1$

$\underline{\quad} + 1 + \underline{\quad} = 13$

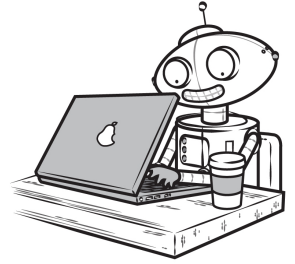
$\underline{\quad} + 5 + \underline{\quad} = 12$

$\underline{\quad} + \underline{\quad} + 2 = 9$

$2 - \underline{\quad} = 1$

$\underline{\quad} + \underline{\quad} + 4 = 12$

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



print This is the computer's pencil. It will be used to write something.

Dr. Programmer Codes This:

```
print ( "Robots are fun." )
```

```
print ( "Robots can talk." )
```

```
A = "walk"
```

```
print ( "Robots can ", A, ".")
```

```
A = "hop"
```

```
print ( "Robots can ", A, ".")
```

Phone App Does This:

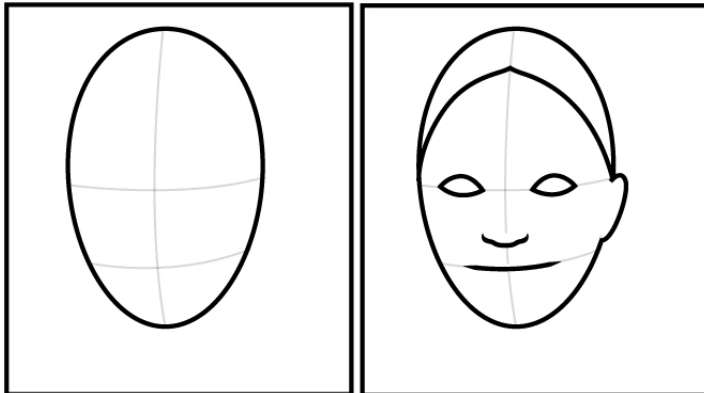
Robots are fun.

c a _____

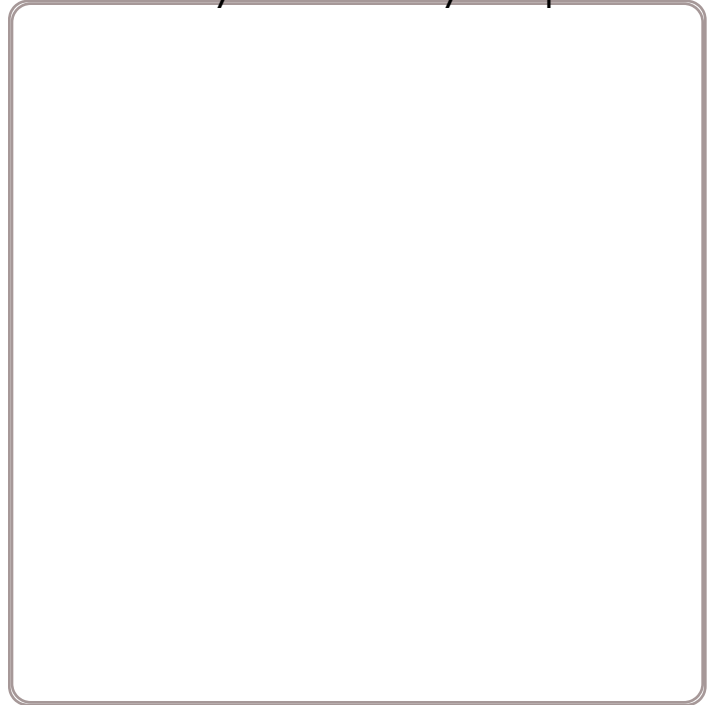
t a l k .

$70 \div 7 = \underline{\hspace{2cm}}$	$343 - 321 = \underline{\hspace{2cm}}$
--	--





Draw it.
What can you add to your picture?



I added _____

Rose took three numbers greater than 1 and multiplied them. One number was three and the other number was eighteen. Of course, she forgot the last number, but she remembered the product was 324. Is this possible?

$$3,945 - 3,219 = \underline{\hspace{2cm}}$$

$$649 - 542 = \underline{\hspace{2cm}}$$

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

$$429 - 157 = \underline{\hspace{2cm}}$$

$$27 \div 3 = \underline{\hspace{2cm}}$$