

Name: \_\_\_\_\_

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.

8+			4-		5
1-	1	2- 4		5	11+
	4+		3-		
1-	7+			4	11+
	15+	8+	2-		
4			2-		1

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

$2 + \underline{\quad} = 7$

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

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

$\underline{\quad} + \underline{\quad} + 2 = 11$

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

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

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

$\underline{\quad} + 2 = 8$

Name: \_\_\_\_\_

Change  $\frac{21}{100}$  to a percent.

Change 7% to a decimal.

Change 0.17 to a percent.

Find 60% of 340.

Find 37% of 272.

Find 8% of 130.

Find 7% of 40.

Find 74% of 210.

Change  $\frac{9}{10}$  to a percent.

Find 9% of 220.

Change 19% to a decimal.

Change  $\frac{22}{40}$  to a decimal.

Find 4% of 215.

Find 17% of 154.

Change 7% to a decimal.



Name: \_\_\_\_\_

Get a fidget spinner! Spin it.

I needed to spin \_\_\_\_\_ time(s) to finish.

If  $m = 8$  and  $h = -39$  then  
what is the value of  $a$ ?  
 $11m - 12h - 3h = a$

$$4 \times 4 \times 4 \times 4 \times 4 = x^5$$

What is the value of  $x$ ?

$$\frac{25}{27} \div \frac{8}{9} =$$

Rewrite as an algebraic  
expression or equation.

Six more than  $m$  tripled is  
seventy-two.

M, M, H, M, M, \_\_\_\_\_, M,

M, H, M, M, H

The letter  $p$  is used to  
represent power points in  
a game. The points must be  
greater than 671 but less  
than 742. Express this as an  
inequality.

$$0.8 \times 0.7$$

$$5 \times 5 \times 5 \times 5 = Z^y$$

What is the value of  $Z$   
and  $y$ ?

$$548 \div 10$$

Convert  $24 \frac{3}{4}$  to an  
improper fraction.

$\frac{1}{9}$ , (1), (9), (81),  
\_\_\_\_\_, (6,561),  
(59,049), (531,441),  
(4,782,969)

A circle graph has four  
sections. Only three  
sections are labeled. The  
labels are 14.21%, 19.07%,  
and 17.72%. What should  
the missing section be?

Name: \_\_\_\_\_

Make change. You can use \$20, \$10, \$5, \$1, 25¢, 10¢, 5¢, or 1¢.

Use the fewest bills and coins to make \$44.45.

		\$1		

Use the fewest bills and coins to make \$31.27.

Use the fewest bills and coins to make \$25.46.

Use the fewest bills and coins to make \$14.38.

Name: \_\_\_\_\_

1 is written with an I.

5 is written with a V.

10 is written with an X.

50 is written with an L.

100 is written with a C.

You cannot have 4 of the same letter consecutively.

4 is written as IV.

9 is written as IX.

40 is written as XL.

So you cannot write 44 like this: XXXXIIII.

But you would write 44 like this: XLIV.

Write the number as a Roman numeral and then find the Roman numeral.

# Roman Numerals

I = \_\_\_\_\_

IV = \_\_\_\_\_

VIII = \_\_\_\_\_

IX = \_\_\_\_\_

XII = \_\_\_\_\_

XIV = \_\_\_\_\_

XVIII = \_\_\_\_\_

XIX = \_\_\_\_\_

XXIII = \_\_\_\_\_

3 \_\_\_\_\_  
 XVIIIIVIVX  
 IIIXLVXXIXX

7 VII  
 VIIIVIIIXVI  
 IXIIIIVIIIXVI

1 \_\_\_\_\_  
 IXXIIIXXXVX  
 VIXLIIXIVIX

6 \_\_\_\_\_  
 IXVVIXXXVX  
 LXIIIIVIVXIX

9 \_\_\_\_\_  
 IXIXIXIVXXI  
 IVIXLXXXIIX

12 \_\_\_\_\_  
 XIIIVVIIIXIX  
 IVIIXIILIVX

11 XI  
 XXIXLXXIIIV  
 XXIXXIXXIVI

5 \_\_\_\_\_  
 XLIXVXXVII  
 VVIIVXVIX

14 \_\_\_\_\_  
 XXIIXIVXVX  
 XIVVIIIVIII

24 \_\_\_\_\_  
 XIVVIXXIVX  
 VIIIXXIVIXI

29 \_\_\_\_\_  
 XXIXIXIVXXI  
 XXIXIXIIIIII

42 \_\_\_\_\_  
 XXXVIXLIIXI  
 IIXXXIIXLIIX

54 \_\_\_\_\_  
 XIIIIIVLIVV  
 XIIILIVIVIV

28 \_\_\_\_\_  
 XXXVIIIXIII  
 XXVIIIXIIVI

16 \_\_\_\_\_  
 XXIIIXVIXVV  
 XVIXXVIIIV

58 \_\_\_\_\_  
 IXXXVILVIII  
 ILVIIIVXLIX



Name: \_\_\_\_\_

Get a fidget spinner! Spin it.

I needed to spin \_\_\_\_\_ time(s) to finish.

Find the LCM using the Birthday Cake method.



3	90 63	6	42 30
3	30 21		
	10 7		
LCM: $3 \times 3 \times 10 \times 7 = 630$		LCM: _____	

3	33 36	4	16 12	5	50 25
LCM: _____		LCM: _____		LCM: _____	

54 84	42 33	26 34
LCM: _____	LCM: _____	LCM: _____



Name: \_\_\_\_\_

Spin again.

I needed to spin \_\_\_\_\_ time(s) to finish.

Find the LCM using the Birthday Cake method.

2	10 22 5 11	3	33 36	4	48 28
LCM: $2 \times 5 \times 11 = 110$		LCM: _____		LCM: _____	
6	240 150	5	210 180		
LCM: _____		LCM: _____			
	105 150		10 22		
LCM: _____		LCM: _____			

Name: \_\_\_\_\_

X	7			2		4
3	$\underline{\quad} \times \underline{\quad} 7$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad} 2$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad} 4$
	28					16
	$\underline{\quad} \times \underline{\quad} 7$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad} 2$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad} 4$
6	$\underline{\quad} \times \underline{\quad} 7$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad} 2$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad} 4$
	84		48			
	$\underline{\quad} \times \underline{\quad} 7$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad} 2$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad} 4$
				12		
	$\underline{\quad} \times \underline{\quad} 7$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad} 2$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad} 4$
				6	24	
	$\underline{\quad} \times \underline{\quad} 7$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad} 2$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad} 4$
		80				
	$\underline{\quad} \times \underline{\quad} 7$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad} 2$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad} 4$
	77	88		22		
	$\underline{\quad} \times \underline{\quad} 7$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad} 2$	$\underline{\quad} \times \underline{\quad}$	$\underline{\quad} \times \underline{\quad} 4$

1 kg = 1,000 g

20 kg = \_\_\_\_\_ g

8 x 11 = \_\_\_\_\_

Ava rolls a die. What is the chance of her rolling a 3?

\_\_\_\_\_



Name: \_\_\_\_\_

The cafeteria workers used 47 heads of lettuce to make salads for the students at Ames Middle School. There are 4 heads of lettuce in each case. Write an equation and solve it to find out how many cases of lettuce were used. Write your answer as a mixed number.

Justin was writing a report on the history of the National Day of Prayer. His search engine listed 10,748 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 123 of these 10,748 websites? (Express your answer in hours and minutes.)

Peter was trying to figure out which was larger,  $\frac{2}{3}$  or  $\frac{3}{4}$ . His friend Anna suggested he draw two equally sized rectangles and use those to figure it out. How would Peter do it using Anna's suggestion?

As you know, it does not matter in which order you multiply two fractions together. However, it does matter in which order you divide fractions. Why?

Robert set four sticks in a square arrangement. The sticks were 10.8 inches long. What was the area enclosed by the sticks?

$$0.15 \cdot 9 =$$

$$\frac{8}{11} \times \frac{4}{11}$$

$$15v - 12.8 = 62.2$$

$$v =$$

Name: \_\_\_\_\_

Maria and Rosa were looking at two exponential expressions that had the same exponent but different bases. They were not sure how to tell which one had the greatest value. Can you give them some advice?

Is there any pair of numbers whose product is the same as its sum?

The pirates took  $7\frac{1}{4}$  bars of gold and divided them up between 5 groups of pirates. How much of a bar of gold did each group get?

Sara had \$15 for lunch each week. If she bought the standard hot lunch each day (for 5 days) at \$2.45, how much money would she have left over at the end of the week?

Adam had six nickels, four dimes, and eight quarters when he left for school. He bought a candy bar for 71¢ on the way. How much money did he have when he arrived at school?

Emma spends three hours per day on weekends playing video games. What fraction of the weekend does she spend playing video games?

$$0.5 (0.7 (0.5 \times 9)) =$$

Simplify.

$$\frac{6}{14} =$$

$$4 \times 56 \div 7 - 36 \div 12 =$$

Name: \_\_\_\_\_

Emily's quarters and pennies total \$6.64. If the quarters were replaced by nickels then she would have \$1.84. How many of each coin does she have?

Megan has a total of one hundred sixty-eight pennies, nickels, and quarters. She has a total of \$9.24. She has four times as many pennies as quarters and one-third as many quarters as nickels. How many of each coin does she have?

Caleb's nickels total \$2.10 less than his dimes. His quarters total \$4 more than his dimes. The total value of the coins is \$10.90. How many of each coin does he have?

Morgan has a total of eighteen quarters and dimes. She has ten more dimes than quarters. How much money does she have?

Name: \_\_\_\_\_

Jennifer's quarters and dimes total \$13. If the quarters were replaced by dimes and the dimes were replaced by quarters, then she would have \$20.95. How many of each coin does she have?

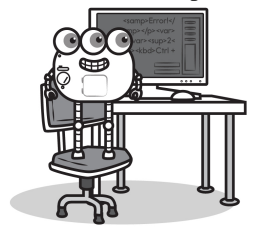
Jasmine has a total of one hundred four coins. If she had 3 times the number of pennies and one-half the number of nickels, she would have \$6.56 less. How much money does she have?

Olivia has six times as many dimes as pennies and five times as many nickels as pennies. Olivia has a total of ninety-six pennies, nickels, and dimes. The total value of the coins is \$6.88. How many of each coin does she have?

If Nicholas had twenty-two fewer quarters, he would have three times as many quarters as nickels. The total value of the coins is \$14.30. How many of each coin does he have?

Name: \_\_\_\_\_

Robot was given a math problem to solve.



Mrs. White, the fourth grade health teacher, told her class that she is 3 decades 5 years old. How old is Mrs. White in years?

Robot wrote this program in Python to solve it.

```
# Define the values
decades = 3
years_in_decade = 10
extra_years = 5

# Convert everything to years
mrs_white_age = decades * years_in_decade + extra_years

print(f"Mrs. White is {mrs_white_age} years old")
```

Robot's program will print the answer to the math problem.

What will the program print out?



### Hints and Questions

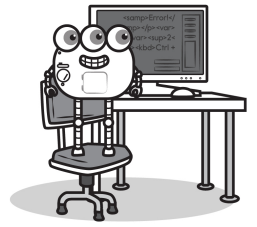
To multiply in Python `*` is used.

After Robot's program is done, the variable `extra_years` will have a value in it. What value does it have?

When Robot wants to help explain something in the program, Robot starts a line with `#` and a space. This is called a comment. How many comments are in Robot's program?

Name: \_\_\_\_\_

Robot was given a math problem to solve.



Grandpa Jackson told a story about hitting a baseball through a window. He had to pay for it. It cost \$5.79. He gave the man who owned the house a \$20 bill. How much did Grandpa Jackson get back?

Robot wrote this program in Python to solve it.

```
cost_of_window = 5.79
amount_given_by_grandpa = 20

change_received_by_grandpa = amount_given_by_grandpa - cost_of_window

print("Grandpa Jackson got back $", change_received_by_grandpa)
```

Robot's program will print the answer to the math problem.

What will the program print out? Fill in the blanks.

Grandpa Jackson got back \$ \_\_\_\_ . \_\_\_\_



### Hints and Questions

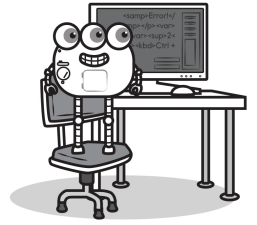
In the program, "cost\_of\_window" is called a variable.

It is used to store a value. Name two other variables used in the program.

After Robot's program is done, the variable cost\_of\_window will have a value in it. What value does it have?

Name: \_\_\_\_\_

Robot wrote this program to solve a math problem.



```
# Define the total cost of the popcorn bags and the quantity of bags
```

```
total_cost = 23.47
```

```
num_bags = 19
```

```
# Calculate the cost of one bag
```

```
cost_per_bag = total_cost / num_bags
```

```
# Print the cost of one bag
```

```
print("The cost per bag of popcorn is: $", round(cost_per_bag, 2))
```

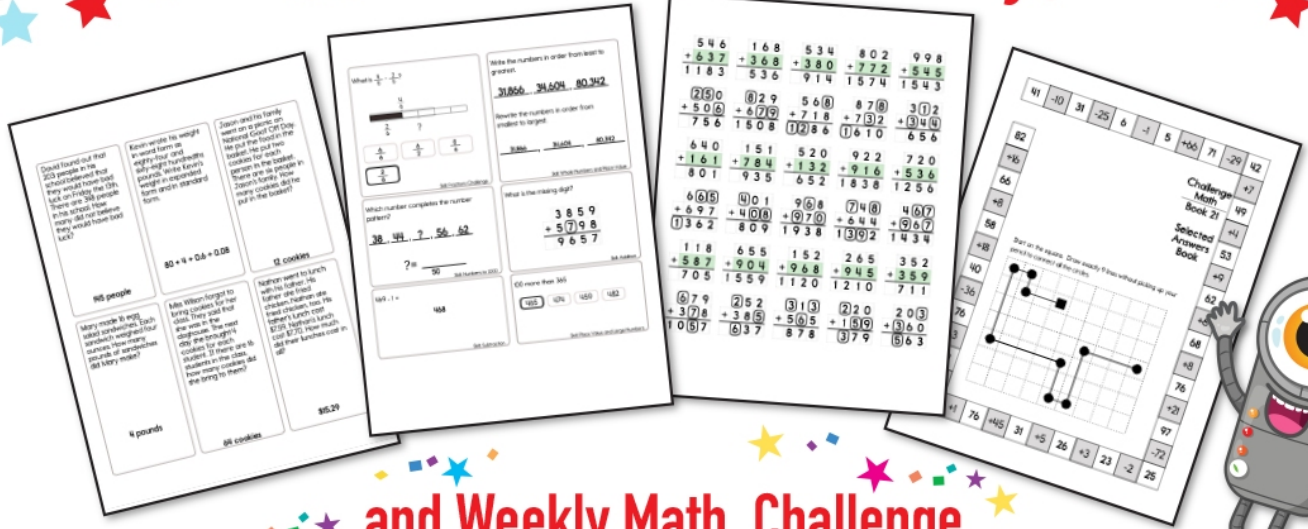
What will the program print out? Fill in the blanks.

The cost per bag of popcorn is: \$ \_\_\_\_ . \_\_\_\_ \_\_\_\_

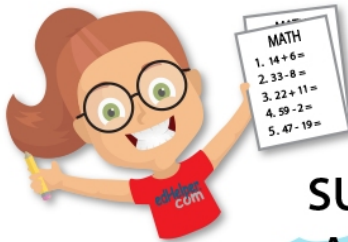
Wait! Robot forgot to write down the math problem.

Can you write your own word problem to explain Robot's computer code?

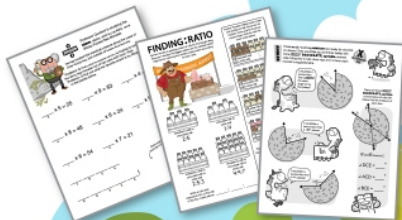
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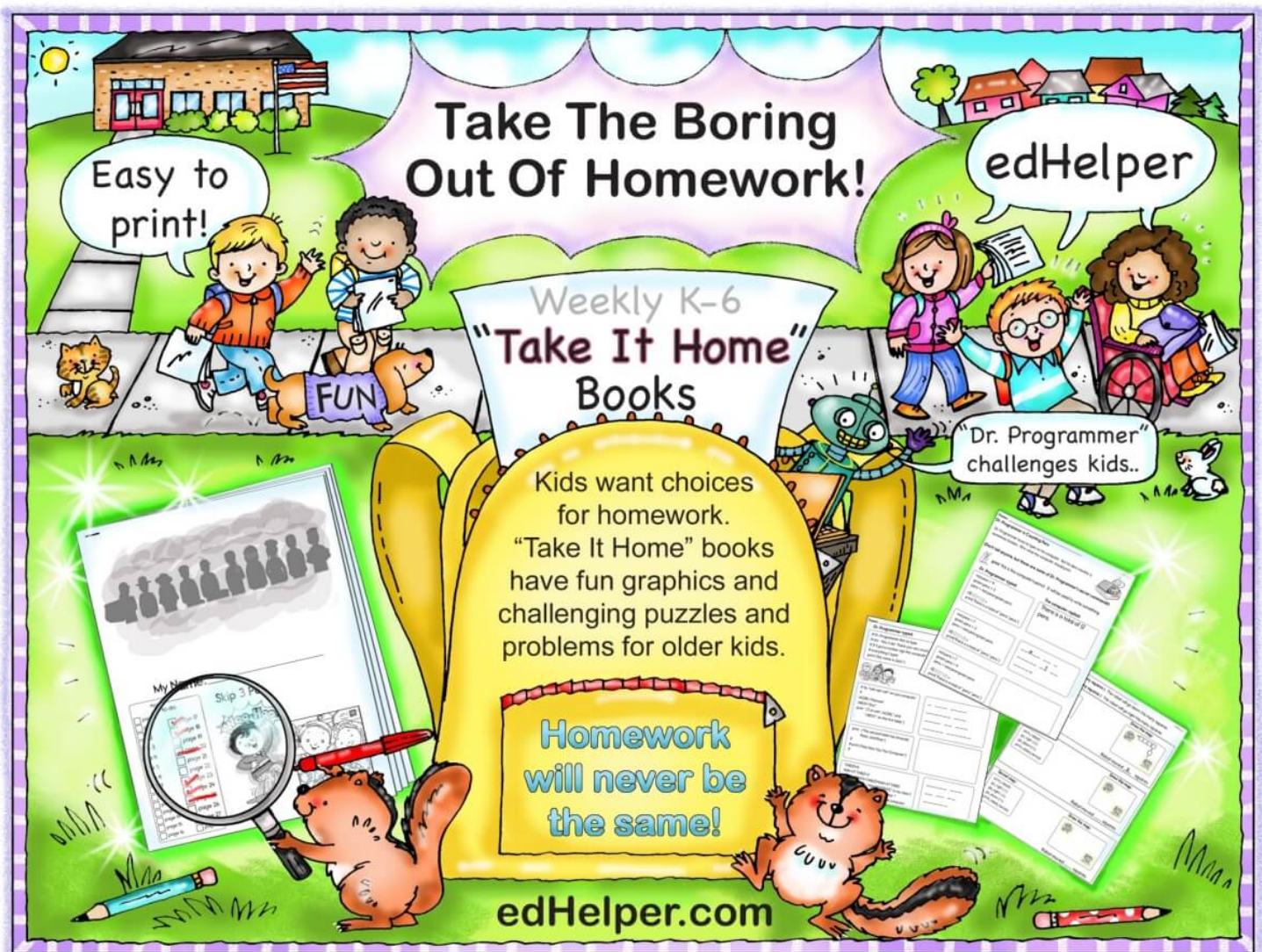


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Name: \_\_\_\_\_

**Percentage****Decimal**

80%

0.8

3%

0.69

60%

0.07

18%

**Fraction****Decimal** $\frac{4}{10}$  $\frac{29}{100}$  $\frac{85}{100}$  $\frac{30}{100}$ **Fraction****Percentage** $\frac{15}{100}$  $\frac{45}{100}$  $\frac{50}{100}$ 

35%

**Percentage****Decimal**

90%

0.63

0.05

19%

53%

2%

Write the decimal number  
for:

forty-two thousandths

$$\begin{array}{r} 35,436 \\ - \quad 26 \\ \hline \end{array}$$

$$\begin{array}{r} 4.34 \\ + 966.7 \\ \hline \end{array}$$

Name: \_\_\_\_\_

There are four boxes (a red box, a green box, a blue box, and a black box). Each box has a different length (58 cm, 60 cm, 55 cm, and 23 cm), a different width (13 cm, 3 cm, 10 cm, and 8 cm), and a different height (89 cm, 45 cm, 69 cm, and 75 cm).

Figure out the length, width, height, and volume for each box.

1. One box has a width of 8 cm and a height of 69 cm.
2. The length of the green box is 0.55 meters.
3. If the length of the red box was increased by 6 cm, the volume of the red box would increase by 2,700 cubic centimeters.
4. One box has a length of 23 cm and a height of 89 cm.
5. The black box has the largest width.
6. The volume of the blue box is 13,500 cubic centimeters.
7. The blue box has the smallest width.

red box: length = \_\_\_\_\_, width = \_\_\_\_\_, height = \_\_\_\_\_, and volume = \_\_\_\_\_

green box: length = \_\_\_\_\_, width = \_\_\_\_\_, height = \_\_\_\_\_, and volume = \_\_\_\_\_

blue box: length = \_\_\_\_\_, width = \_\_\_\_\_, height = \_\_\_\_\_, and volume = \_\_\_\_\_

black box: length = \_\_\_\_\_, width = \_\_\_\_\_, height = \_\_\_\_\_, and volume = \_\_\_\_\_

Write an equation to represent this:

The product of four and five is twenty.

\_\_\_\_\_

$$33 \div 3 =$$

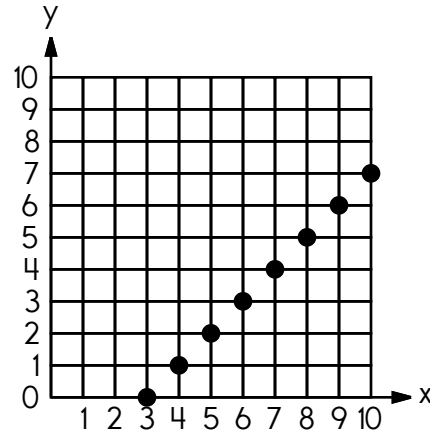
What is the largest possible sum of a three-digit number and a two-digit number? Show the two numbers.

word root **form** can mean **shape**

**uniform, transform**

Name: \_\_\_\_\_

Anna rode her bike to Sara's house. Leaving her driveway, she turned left. She rode past the soccer field and then at the fourth traffic light after the soccer field she turned right. Sara's house was the seventh house on the right side of the road. It's getting late, and Anna needs to go home, but she has brain freeze. Write directions on how she should ride her bike home from Sara's house.



Connect the points on this chart and draw arrows at the end of the line to show the equation  $y = x - 3$ .

Then, plot points for the equation  $y = x - 1$  and draw the line to indicate this equation.

The hour hand on a clock started at 11 p.m. By the time the hour hand on the clock moved to 2 a.m., how many degrees did it move?

Emma is at Rent-A-Robot. She wants to rent a robot for 52 days. The store offers a couple of choices for rentals. She can rent the robot she wants for 5 days at a cost of \$240, or she can choose a longer rental at \$858 for 22 days. The store lets you extend rentals at any time, and you can pick either the 5-day or 22-day rental when a rental is extended. The store allows you to return robots early, but will not refund any money.

How much will it cost Emma to rent the robot she wants for 52 days?



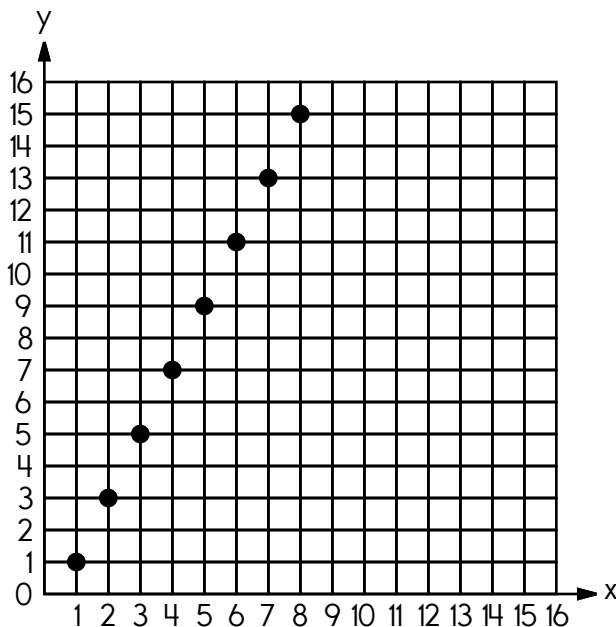
Name: \_\_\_\_\_

Jenna loves to swim. If she swims for 5 minutes, she can average a lap every 141 seconds. If she swims for 10 minutes, the average speed of each lap is 18 seconds slower than when she swims for 5 minutes.

Today, Jenna is going to swim laps for 10 minutes. How many laps do you think she will be able to complete?



Draw two different rectangles using the vertices.



Some of the points of a linear equation are plotted. What is the linear equation?

Sarah is working on a computer program. She created a variable and set its initial value to 0.8. Then she made a loop. In the loop, she multiplies the variable by 2 and prints the current value. Here is the program.

```
my_variable = 0.8
count = 0
while (count < 3):
    count = count + 1
    my_variable = my_variable * 2
    print (my_variable, "\n")
```

What will this computer program print?

Name: \_\_\_\_\_

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

He added  $\frac{2}{3}$  cup of Cheerios,  $\frac{3}{4}$  cup of Goldfish crackers, and  $2\frac{1}{6}$  cups of raisins.

How many cups of food are now in the bowl?

Figure out the greatest common factor of the following numbers:

60

85

5

In art class, the teacher asked the class to draw a rectangle.

Mrs. Williams is not just the art teacher but also the math teacher. She loves to talk numbers! She explained, "I don't want to give you the exact size, but the ratio of one of the sides of your rectangle to the side next to it should be 4 to 5. Each side of the shape must have a length that is a whole number of inches."

Rose wants to draw the biggest rectangle on her 15.5-inch by 19.5-inch piece of paper.

What size should she draw the rectangle?

Name: \_\_\_\_\_

Eric wants to make 36% citric acid. If he has  $\frac{1}{2}$  liters of 0% citric acid, how many liters of 45% citric acid should he add?

The sum of a number and  $\frac{1}{5}$  is  $\frac{8}{15}$ . What is the number?

Justin has 50 less compact discs than Ryan has. Ryan and Justin have a total of less than 220 CDs. What can be said about the number of CDs that Justin has?

A number is twenty-nine less than four times another number. Their difference is seventy-six. What are the numbers?

At EdHelper Coffee, one kind of coffee sells for \$1.49 a cup and another sells for \$2.75 a cup. How much of each coffee should be used to make 14 cups of a coffee mixture which sells for \$2.48 a cup?

How much water should be added to two liters of 74% alcohol to make a mixture of 37% alcohol?



Name: \_\_\_\_\_

Nathan and Timothy work as plumbers. In October, they made a combined income of \$5,069 after working a combined total of 132 hours. Timothy's hourly wage is \$4 more than two times Nathan's. How much did Timothy earn in October?

Austin sees Christopher  $\frac{1}{6}$  of a mile away. Christopher is riding his bicycle towards Austin at two miles per hour. How much time will it take Christopher to reach Austin?

Olivia drove 270 miles. She drove 41 mph for the first 2 hours and 47 mph for the rest of her drive. How long did she drive at 47 mph?

It takes thirty-three days for twenty-four people, who are all working together at the same rate, to build a house. How long would it take twelve people to build the house?

Victoria and Stephanie drove separately to a park that is 32 kilometers away. Victoria left at 8:31 a.m. and arrived at 9:19 a.m. Stephanie left at 9:26 a.m. and arrived at 9:46 a.m. Stephanie drove her car at a rate that averaged 56 kph faster than Victoria. What were Victoria's and Stephanie's speeds?

A rectangle, whose perimeter is one hundred feet, has a length that is eight feet longer than its width. What are the dimensions of the rectangle?

Name: \_\_\_\_\_

There were 16,091 weddings in Springs City last year. According to state records, notaries public performed 13% of the weddings. How many weddings were not performed by notaries public?

Mr. Bloop is giving a demonstration using two hard rubber balls. He is dropping them from his hands to the floor and measuring the width of the dents they make in a piece of polystyrene foam. The one that has the most kinetic energy when it hits leaves the widest dent. Both balls have a radius of  $2\frac{1}{2}$  cm but their masses are different. The red ball is  $15\frac{1}{3}$  grams and the blue one is  $17\frac{3}{4}$  grams. If the blue one is held  $3\frac{1}{3}$  m from the surface of the foam, and the red one is held  $2\frac{1}{2}$  m up, which one should make the larger dent? You do not need to know the value for the acceleration of gravity to solve this problem!

Anna is making chocolate milkshakes for Anne's birthday party. There will be fifteen people at the party. It takes half of a cup of milk to make one chocolate milkshake. How many cups of milk will it take to make fifteen milkshakes?

Mr. Bloop likes to hit fly balls to his nephew on Saturday afternoons. His nephew catches about three out of every five fly balls hit to him. If Mr. Bloop hits 65 fly balls, how many will he probably catch?

Name: \_\_\_\_\_

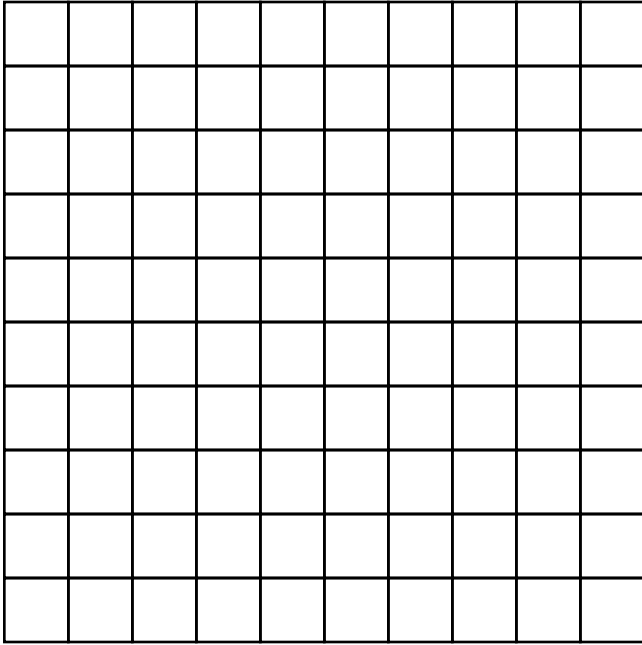
Alex hit a home run that went 329 feet on Saturday. On Monday, he hit one that went 319 feet. The distance of the second home run was what percent of the first home run? Round your answer to the nearest whole number.

There are 18,567 colored marbles in a large plastic jar (yes it is a pretty large jar). If a third of them are blue, one-ninth are red, and one-eighteenth are green, how many are some other color?

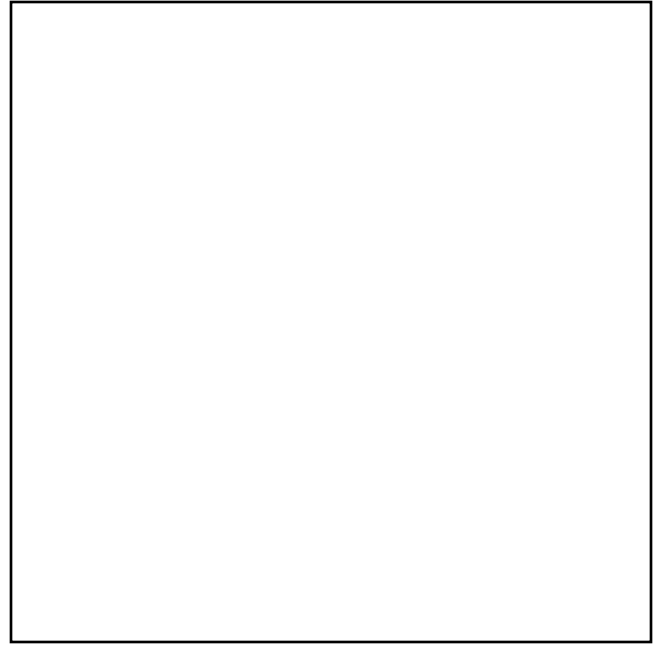
Cyrano de Bergerac had a prominent nose. As a matter of fact, it was so large that it was often the only thing people noticed about him. If one had to choose an adjective to describe Cyrano's nose, the best would be "tremendous!" Cyrano fell in love with a beautiful young woman, but knew she could never love someone so ugly. It's a long story, but in the end, Cyrano discovered that he was wrong. The young woman did love him. Cyrano's nose was thirteen centimeters long. One cm = 0.39 in. How long was Cyrano's nose in inches? Round your answer to the nearest tenth of an inch.

The average length of adult corn snakes in Carson County is 27 inches. The average length of corn snakes in Bitburg County, which is quite a bit farther north, is 18 inches. The corn snakes in Carson County are on average longer than those of Bitburg County by what percent? Round your answer to the nearest hundredth of a percent.

Name: \_\_\_\_\_



Color in 49% of the large square.



Color in 13% of the large square.

$$16\% = \underline{0.16} \qquad 38\% = \underline{\hspace{2cm}}$$

$$91\% = \underline{\hspace{2cm}} \qquad 60\% = \underline{\hspace{2cm}}$$

$$6\% = \underline{\hspace{2cm}} \qquad 80\% = \underline{\hspace{2cm}}$$

$$73\% = \underline{\hspace{2cm}} \qquad 40\% = \underline{\hspace{2cm}}$$

$$2\% = \underline{\hspace{2cm}} \qquad 59\% = \underline{\hspace{2cm}}$$

$$\frac{1}{5} = \frac{20}{100} = \underline{\hspace{2cm}} \%$$

$$\frac{4}{5} = \frac{\hspace{1cm}}{100} = \underline{\hspace{2cm}} \%$$

$$\frac{7}{10} = \frac{\hspace{1cm}}{100} = \underline{\hspace{2cm}} \%$$

$$\frac{19}{20} = \frac{\hspace{1cm}}{100} = \underline{\hspace{2cm}} \%$$

$$\frac{3}{50} = \frac{\hspace{1cm}}{100} = \underline{\hspace{2cm}} \%$$

Name: \_\_\_\_\_

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

$5^5$

$5^4$

$5^1$

$6^3$

$6^4$

$6^1$

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

He added  $2\frac{1}{4}$  cups of raisins,  $\frac{2}{3}$  cup of Goldfish crackers, and  $2\frac{5}{7}$  cups of Cheerios.

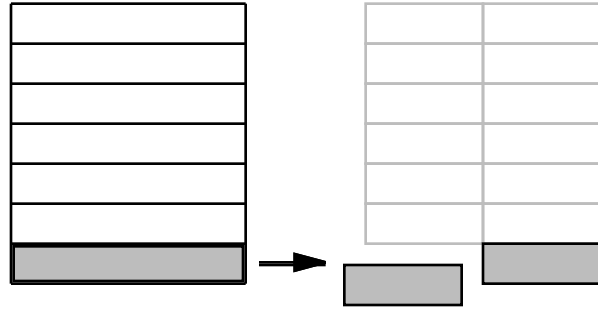
How many cups of food are now in the bowl?

Name: \_\_\_\_\_

$$\frac{1}{2} \text{ of } \frac{1}{7} = \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}} \times \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}}$$

$$= \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}}$$

Draw it.



$$\frac{1}{4} \text{ of } \frac{1}{5} = \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}} \times \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}}$$

$$= \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}}$$

Draw it.

$$\frac{1}{2} \text{ of } \frac{4}{5} = \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}} \times \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}}$$

$$= \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}}$$

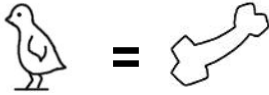
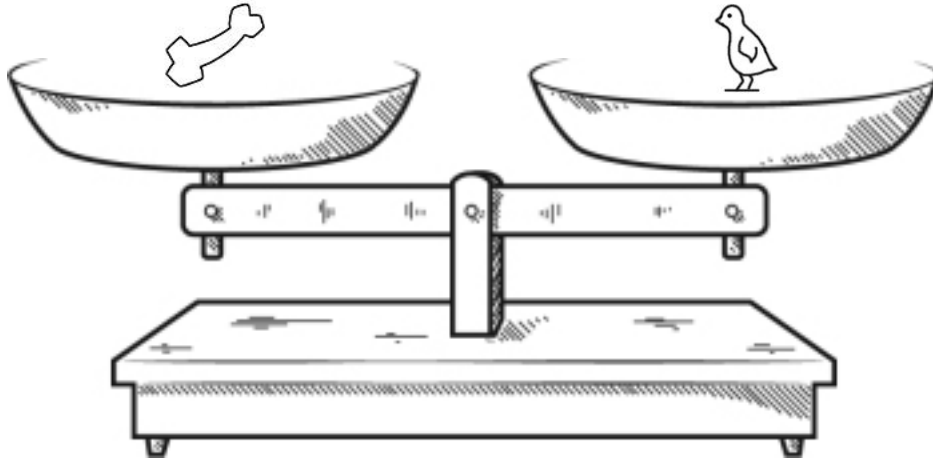
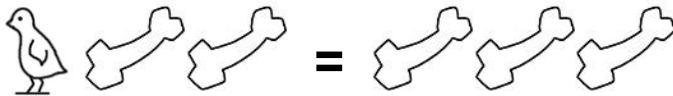
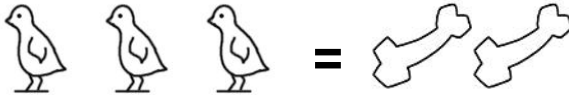
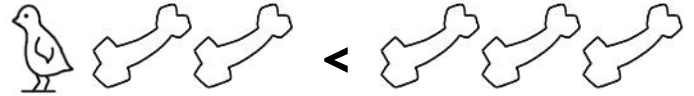
Draw it.

$$\frac{2}{6} \text{ of } \frac{1}{5} = \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}} \times \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}}$$

$$= \frac{\boxed{\phantom{0}}}{\boxed{\phantom{0}}}$$

Draw it.

Name: \_\_\_\_\_

☐ True☐ False☐ True☐ False☐ True☐ False☐ True☐ False☐ True☐ False☐ True☐ False**Did you find that two are true? If not, look again!****You should only mark TRUE if you are absolutely sure it is correct!**

Find 37% of 235.

Reduce  $\frac{75}{85}$  to its lowest terms.

$$\begin{array}{r} 291 \\ + 80 \\ \hline \end{array}$$

Name: \_\_\_\_\_

Use  $>$ ,  $<$ , or  $=$  to complete.

$-5.4 \underline{\hspace{1cm}} 5.40$

$-5.5 \underline{\hspace{1cm}} -5.8$

$-7 \underline{\hspace{1cm}} 4$

$-(21) - (-3) =$

$-17 - (11) =$

$-24 - (9) =$

$(-9.7)(11.1) =$

$(8.2)(-11.8) =$

Simplify.

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

$-( \frac{-2}{3} ) \underline{\hspace{2cm}}$

$-(8) \underline{\hspace{2cm}}$

Write the reciprocal of each number.

$\frac{3}{10} \underline{\hspace{2cm}}$

$-6 \underline{\hspace{2cm}}$

$\frac{18}{10} \underline{\hspace{2cm}}$

$(-12.9) - (4.6) - (2.7) =$

$(-11)(8) =$

$(-6)(6) =$

$(12)(-8) =$

Use  $>$ ,  $<$ , or  $=$  to complete.

$-5.50 \underline{\hspace{1cm}} -5.5$

$-9.6 \underline{\hspace{1cm}} -9.3$

$-7.4 \underline{\hspace{1cm}} -7.48$

$(-5)(-5) =$

$(12)(-6) =$

$(-7)(4) =$

Use  $>$ ,  $<$ , or  $=$  to complete.

$-8 \underline{\hspace{1cm}} 9$

$6.3 \underline{\hspace{1cm}} -6.30$

$-5.76 \underline{\hspace{1cm}} 5.7$

$(-9.1)(-7.6) =$

$(-6.7)(12.1) =$

$(-6.5) - (1.7) - (1.4) =$



-5.3              5.30

$$-30 - ( 10 ) =$$

$$17 - (-7) =$$

$$-(23) - (-9) =$$

$$(5.9)(-6.6) =$$

$$\begin{pmatrix} -11.4 \end{pmatrix} \begin{pmatrix} 4.8 \end{pmatrix} =$$

-1.6              -1.60

$$-(-17) - (4) =$$

$$29 - (-3) =$$

$$25 - (-4) =$$

$$(12)(-8) =$$

$$(-9)(-11) =$$

$$(-9)(7) =$$

$$\left| \frac{-4}{6} \right| = \underline{\hspace{2cm}}$$

Write these numbers in order from least to greatest:

$$6, \frac{-3}{5}, \frac{-3}{8}, -8, \frac{2}{3}, 5$$

$$(7.3) - (4.5) - (-1.2) =$$

$$-6.80 \quad \underline{\quad} \quad 6.8$$

2.3      -2.7

$$-16 - (11) =$$

$$-(29) - (-6) =$$

$$30 - (-5) =$$

Name: \_\_\_\_\_

9,000 and 800,000 added to a number is 1,657,388. What is the number?

Twenty-four less than three-sixths of a number equals 21. What is the number?

Eleven times a number is  $28\frac{3}{5}$ . What is the number?

Two-sixths of a number equals 504. What is the number?

Thirty-seven less than a number is seven. What is the number?

If eight is added sixteen times to a number, the result is 150. What is the number?

Name: \_\_\_\_\_

Eighty-nine more than 2 times a number is 109. What is the number?

The sum of twenty-seven and forty-nine is sixty-eight more than a number. What is the number?

Twenty exceeds one-tenth of a number by 8. What is the number?

The sum of forty-five and thirty-three is eighteen more than a number. What is the number?

Nineteen more than a number is ninety-nine. What is the number?

Eleven times a number is  $31\frac{3}{7}$ . What is the number?

Name: \_\_\_\_\_

$$16 - \frac{3}{4} + \frac{3}{4} =$$

Write the reciprocal.

$$\frac{6}{1}$$

Write the reciprocal.

$$\frac{2}{3}$$

$$4 + \frac{4}{5} - \frac{1}{2} =$$

$$73 - \frac{4}{5} =$$

Write the reciprocal.

$$\frac{9}{5}$$

$$\frac{5}{9} \times 4 =$$

Find the least common denominator.

$$\frac{3}{8} \text{ and } \frac{3}{9}$$

$$\frac{7}{12} \times \frac{3}{5} =$$

$$20 \div \frac{1}{2} =$$

$$\begin{array}{r} \frac{3}{8} \\ + \frac{6}{8} \\ \hline \end{array}$$

$$\frac{2}{3} \times \frac{3}{4} =$$

Name: \_\_\_\_\_

On a map, 0.8 inches is equal to 6 miles. David wants to go from where his house is to a soccer field hosting a tournament that is 4.8 inches away. How far is the actual distance from his house to the soccer field?

Pam is working on her computer. She is choosing pictures for a digital album and is clicking her mouse every 3.4 seconds. How many times will she click in one minute if she can keep that up?

Jenna has 80 US dollars, but she wants to exchange her money for Euros. The bank has a sign that says 1 US dollar = 0.86 Euros. If she exchanges her US dollars into Euros, how many Euros will she get?

Sara is determined to keep playing a game till she finishes all 128 levels. It took her 21 minutes to complete the first 16 levels. At this rate, how much time do you think it will take her to finish all the levels?

Name: \_\_\_\_\_

Each box needs a number from 1 to 9. You may re-use numbers.

sum of 11 →			6	sum of 8 →			
	sum of 6 →				sum of 6 ↓		
sum of 9 →		2		sum of 6 →	2		
sum of 10 ↓		sum of 9 ↓	sum of 10 →				
		2	sum of 7 ↓	sum of 4 ↓		sum of 5 ↓	
	sum of 6 ↓	3		3			sum of 2 ↓
		4		sum of 2 →			
			sum of 6 →	4			

sum of 2 ↓	sum of 6 →		1				
	sum of 7 →			1		sum of 8 ↓	
		sum of 6 ↓		sum of 6 →		4	
sum of 9 →	1					3	sum of 7 ↓
sum of 6 →		3			sum of 2 →	1	
	sum of 9 →						
				sum of 11 →			4
			sum of 10 →				

How many grams are in 9 kilograms?  _____ grams		Can 286 be evenly divided by 8? Circle: 286 is NOT evenly divisible by 8 286 is evenly divisible by 8
$\begin{array}{r} 50 \\ - 17 \\ \hline \end{array}$	$9 \times 4 =$	
$30 \div 3 =$	Rewrite these in increasing order of length: 764 mm, 8 m, 21 cm	$\begin{array}{r} 39 \\ + 22 \\ \hline \end{array}$
$35 \div 5 =$		
Write 38,645 in words.  _____		12 km = _____ m

Name: \_\_\_\_\_

A printer can print 72 pages in 9 minutes.  
How many pages can the printer print in one minute?

How many pages can the printer print in one hour?

Wendy is playing the Zeepers app where she needs to fly her spaceship to different planets. Her spaceship uses Zinko fuel and can travel 1,404,000 miles on 9 cups of Zinko. If her spaceship currently has 14 cups of Zinko, what is the maximum distance it can fly before running out of fuel?

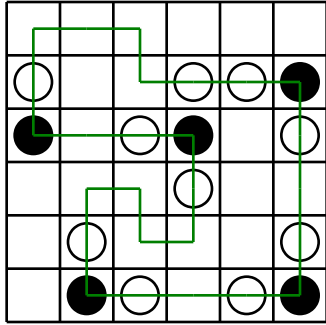
At City Laundromat they have 9 extra large-sized washers that can do 27 loads of laundry in 81 minutes.

How many loads of laundry can one machine do in 81 minutes?

One-third of a cup of flour is needed to make 4 cookies using a recipe called Fantastic Flour Cookies. If Jacob has 20 cups of flour, what is the maximum number of Fantastic Flour Cookies he could make?

Hint: The amount of time is the same. The only thing that changes is instead of nine machines there is only one. You will need to divide.

Name: \_\_\_\_\_

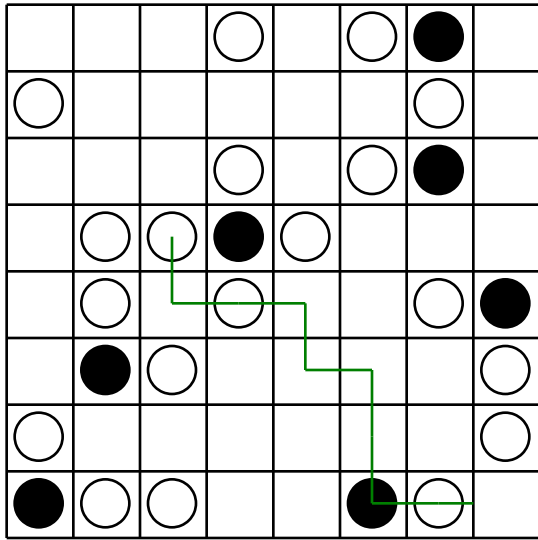


Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn.

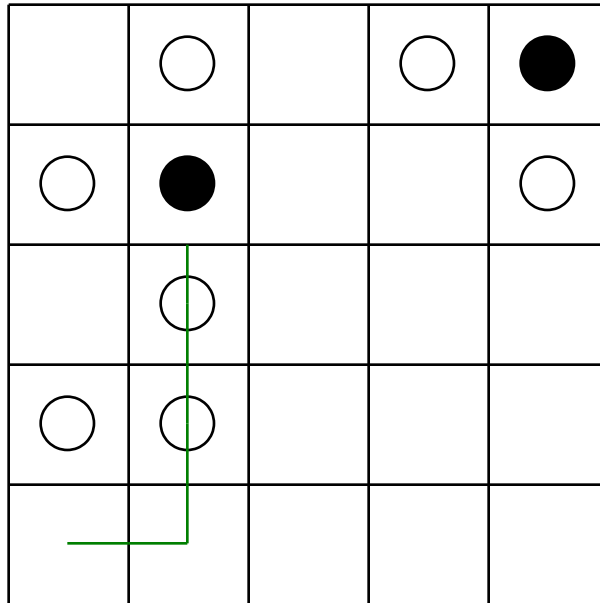
You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

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

Finish the line:



Finish the line:



$$\begin{array}{r} 708 \\ - 463 \\ \hline \end{array}$$

In the number 5,505,077,863, the digit 6 is in what place?

\_\_\_\_\_

$$\begin{array}{r} 483 \\ + 421 \\ \hline \end{array}$$

$69,333 + 53,111 = \underline{\hspace{2cm}}$

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

$11 \times 4 = \underline{\hspace{2cm}}$

$5 \times 4 = \underline{\hspace{2cm}}$

Circle the smallest number:

750,692

1,834,683

2,376

4,927,501,015

$14 \div 7 = \underline{\hspace{2cm}}$

word root **apo** can mean **response or defense**

**apology, apologue**

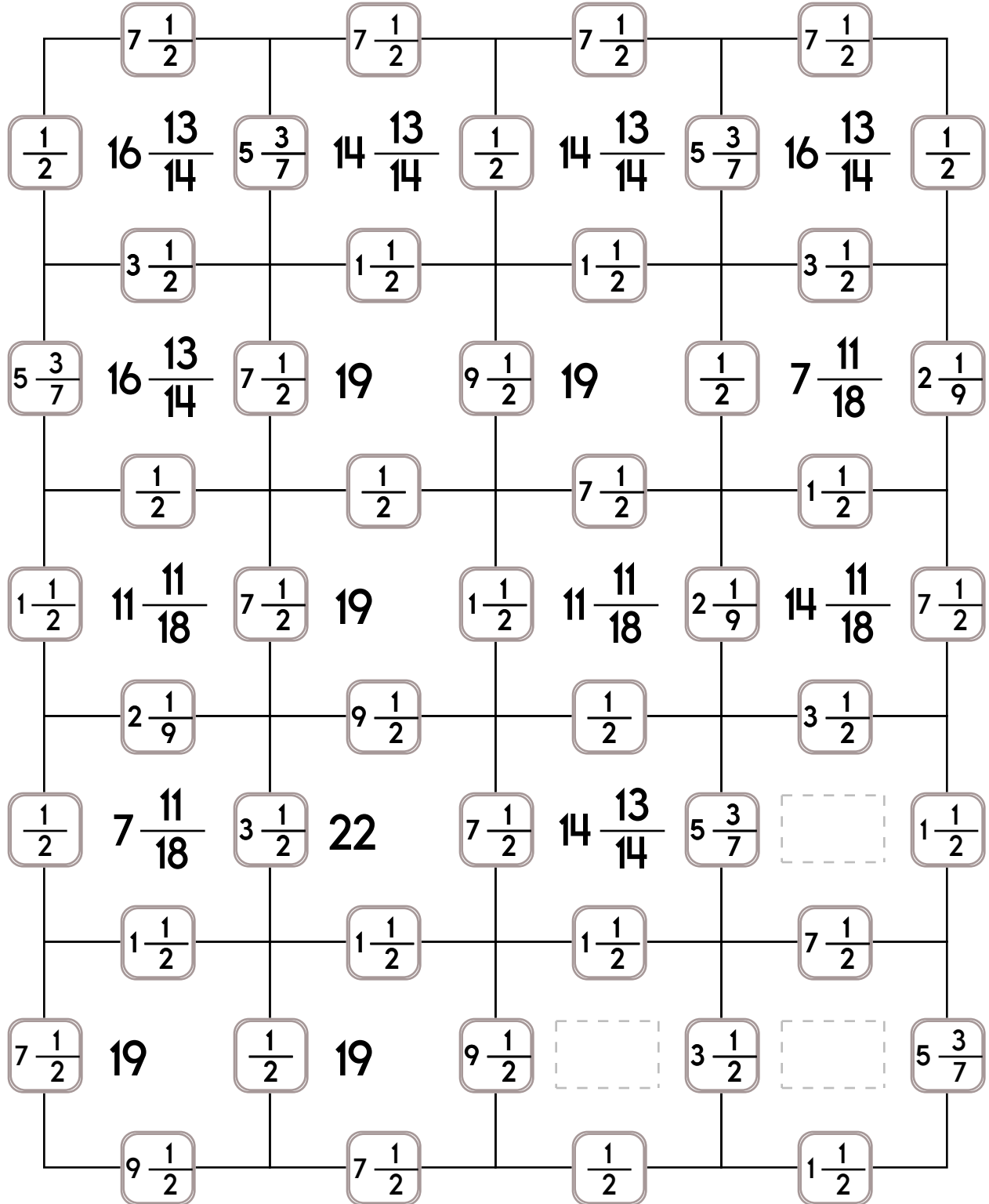


Name: \_\_\_\_\_

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:  $9\frac{1}{2}$ ,  $5\frac{3}{7}$ , or  $2\frac{1}{9}$ .

The other three numbers have to all be DIFFERENT and must be from these:  $1\frac{1}{2}$ ,  $\frac{1}{2}$ ,  $7\frac{1}{2}$ , or  $3\frac{1}{2}$ .



Name: \_\_\_\_\_

$$\begin{array}{r} 867 \\ + 71 \\ \hline \end{array}$$

$$\begin{array}{r} 3,119 \\ - 758 \\ \hline \end{array}$$

$285 + 92 =$

$$\begin{array}{r} 4,009,697 \\ - 2,038,658 \\ \hline \end{array}$$

$523 - 35 =$

Find the difference  
between 3,288 and 1,797.

Divide and write remainder.

$48 \div 5 =$

$$4 \overline{) 455}$$

Divide and write remainder.

$42 \div 7 =$

Divide and write remainder.

$23 \times 38 =$

$$\begin{array}{r} 47 \\ \times 8 \\ \hline \end{array}$$

$$60 \overline{) 900}$$

Divide and write remainder.



Name: \_\_\_\_\_

Get a fidget spinner! Spin it.

I needed to spin \_\_\_\_\_ time(s) to finish.

$$0.04 \times 0.5$$

$$\frac{4}{6} \times \frac{2}{7}$$

What is the remainder of 95 divided by 17?

What is the prime factorization of 108?

At the dive meet Justin received scores of 8.2, 8.1, 7.8, 9.5, and 9.4. The largest and smallest scores were dropped and the rest were averaged for a final score and rounded to the nearest tenth. What is the final score Justin received?

What is the mode of the following number set?

103, 95, 92, 104, 100, 83, 99, 89, 97, 86, 90, 101, 94

$$0.8 \times 0.9$$

$$y = x + 12$$
$$y = 19$$

What is the value of x?

$$t - 6 + t = 28$$

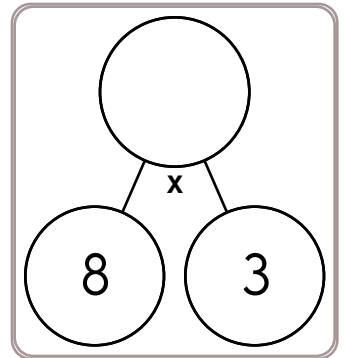
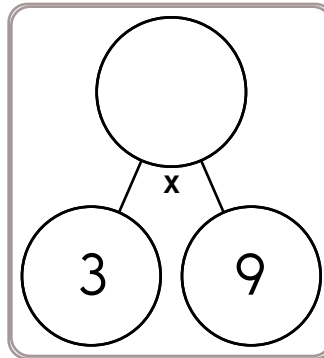
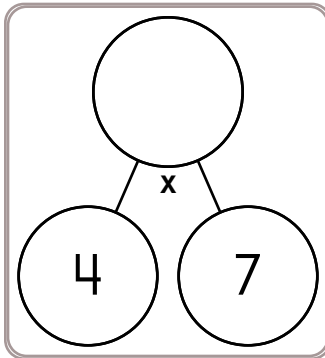
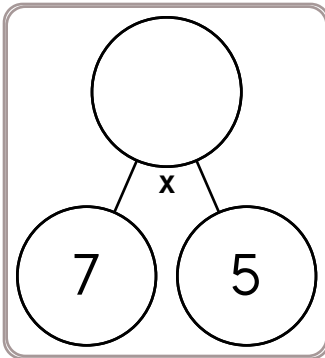
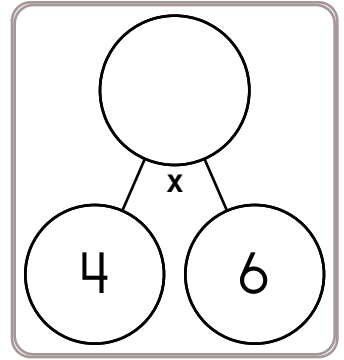
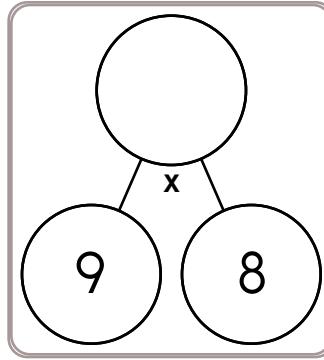
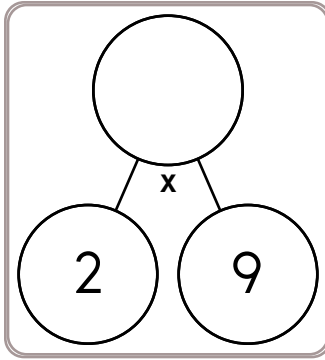
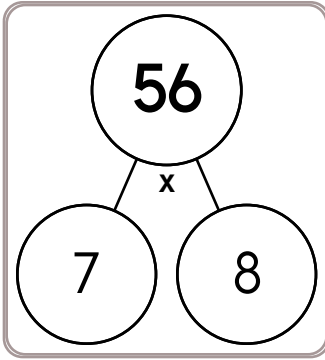
What is the value of t?

In what quadrant would you find the point (-8, 8)?

$$(0.3)(0.12)$$

$$0.9 (0.2 (0.9 + 5)) =$$

Name: \_\_\_\_\_



$4 \times 2 =$

$5 \times 3 =$

$4 \times 4 =$

$6 \times 9 =$

$3 \times 7 =$

$7 \times 5 =$

$8 \times 6 =$

$3 \times 2 =$

$9 \times 8 =$

$6 \times 5 =$

$8 \times 3 =$

$3 \times 6 =$



$\_\_ \times 9 = 18$

$10 \times \_\_ = 110$

$\_\_ \times 2 = 20$

$2 \times \_\_ = 10$

$11 \times \_\_ = 121$

$\_\_ \times 2 = 14$

$\_\_ \times 12 = 36$

$2 \times \_\_ = 6$

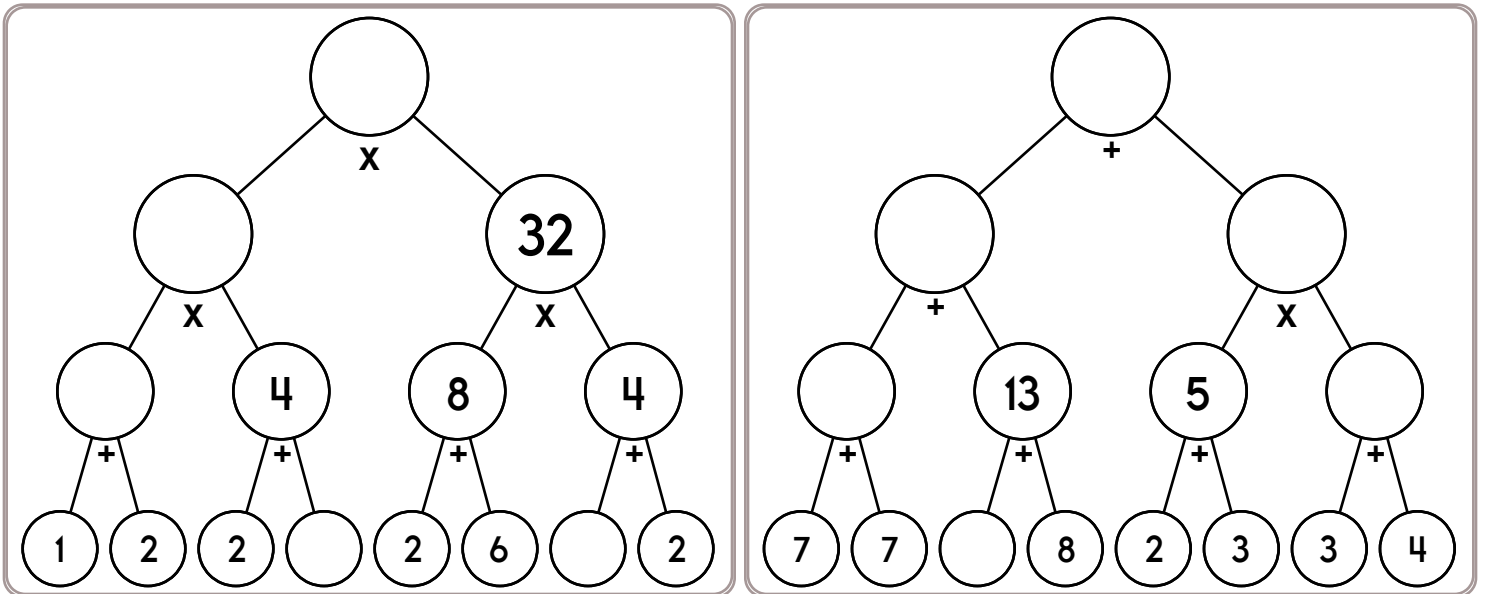
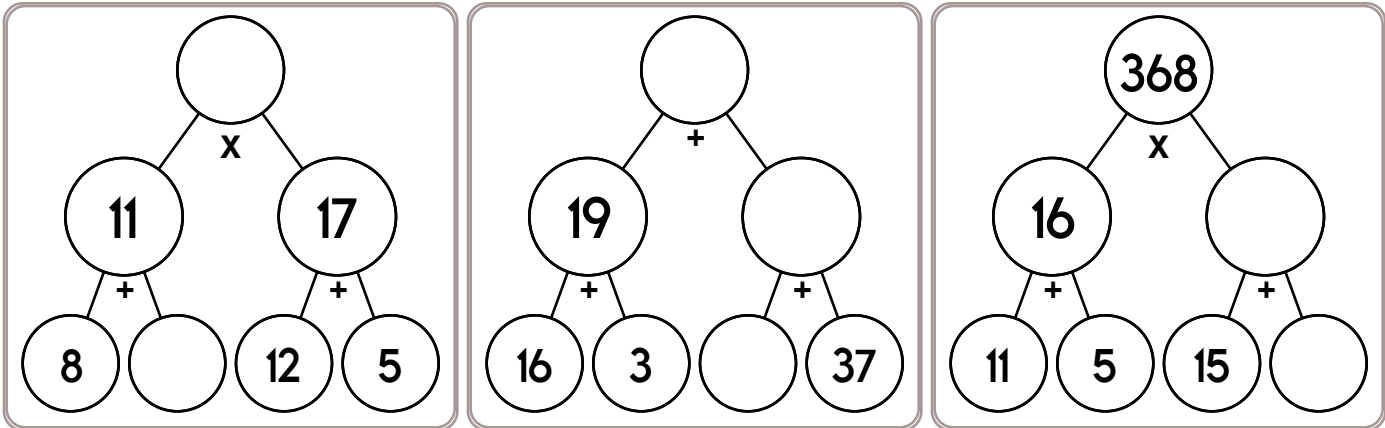
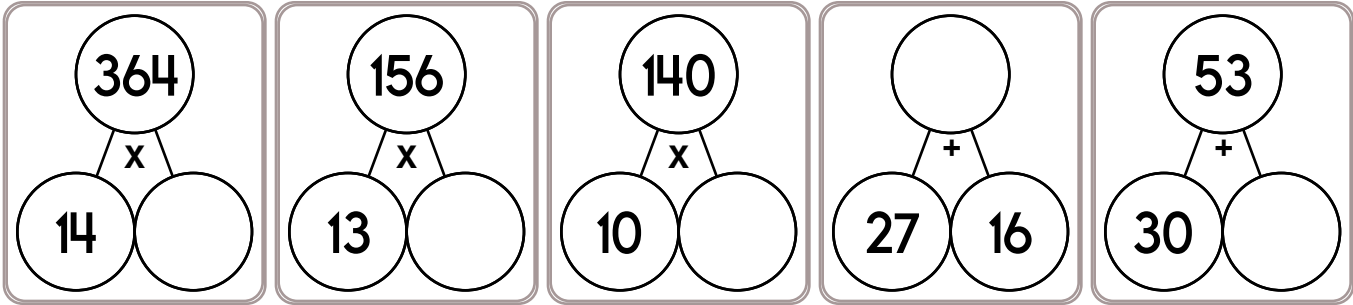
$10 \times \_\_ = 30$

$\_\_ \times 5 = 30$

$8 \times \_\_ = 16$

$\_\_ \times 9 = 81$

Name: \_\_\_\_\_



Sketch 2 lines  $\overleftrightarrow{LM}$  and  $\overleftrightarrow{VW}$  that are parallel.



What kind of angle is this?

word root **tact** can mean **touch**

**contact, intact, tactile**

Name: \_\_\_\_\_

The value of a mix of Andrew's nickels and dimes is \$2.60. If the dimes were replaced by pennies, the value would be \$0.98. How many of each coin does he have?

Sean has a total of three hundred twenty-two coins. He has four times as many quarters as dimes and one-half as many dimes as pennies. How much money does he have?

Justin has four times as many dimes as pennies and five times as many quarters as pennies. Justin has a total of fifty pennies, dimes, and quarters. The total value of the coins is \$8.30. How many of each coin does he have?

Destiny has \$9.90 in pennies and dimes. Destiny has eleven more dimes than pennies. How many of each coin does she have?

Joshua's dimes and quarters total \$18.25. If the dimes were replaced by nickels then he would have \$17.25. How many of each coin does he have?

Savannah took a certain number of dimes from Rachel. She then gave Rachel the same number of quarters in return. Savannah had \$0.75 more than she had before the exchange. What was the number of quarters that Savannah gave Rachel?

Name: \_\_\_\_\_

		x	+	+	=	
+	C	?	B	C		113
-	C	A	B	A		117
=	A	A	A	A		168
	4	12	6	8		

**Equations and Hints:**

Each letter is a whole number.

Fill in the equations using the chart:

$$A \times A + A + A = 168 \quad C + A - A = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} - \underline{\quad} = 4 \quad \underline{\quad} + \underline{\quad} - \underline{\quad} = 6$$

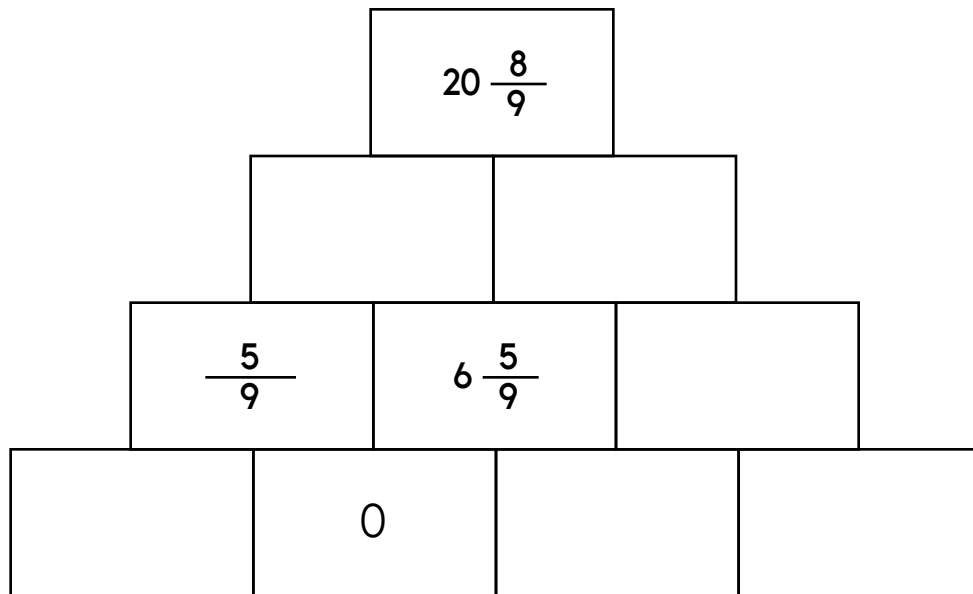
$$\underline{\quad} \times \underline{\quad} + \underline{\quad} + \underline{\quad} = 117$$

Additional hints:

$$A = C + 4 \quad A > 4$$

**Solve:**

$$? = \underline{\quad}$$

[illegible]

$54 \div 9 =$ _____	What number is halfway between 12 and 20?	$3 \times 9 =$ _____
---------------------	---	----------------------

vivid, vividly



Name: \_\_\_\_\_

There were two amusement parks. It took about 1 hour and 10 minutes to drive to one of them and 1 hour and 5 minutes to drive to the other. How much time would be saved by driving to the closer amusement park?

State two methods you can use to compare two ratios to decide which ratio is greater.

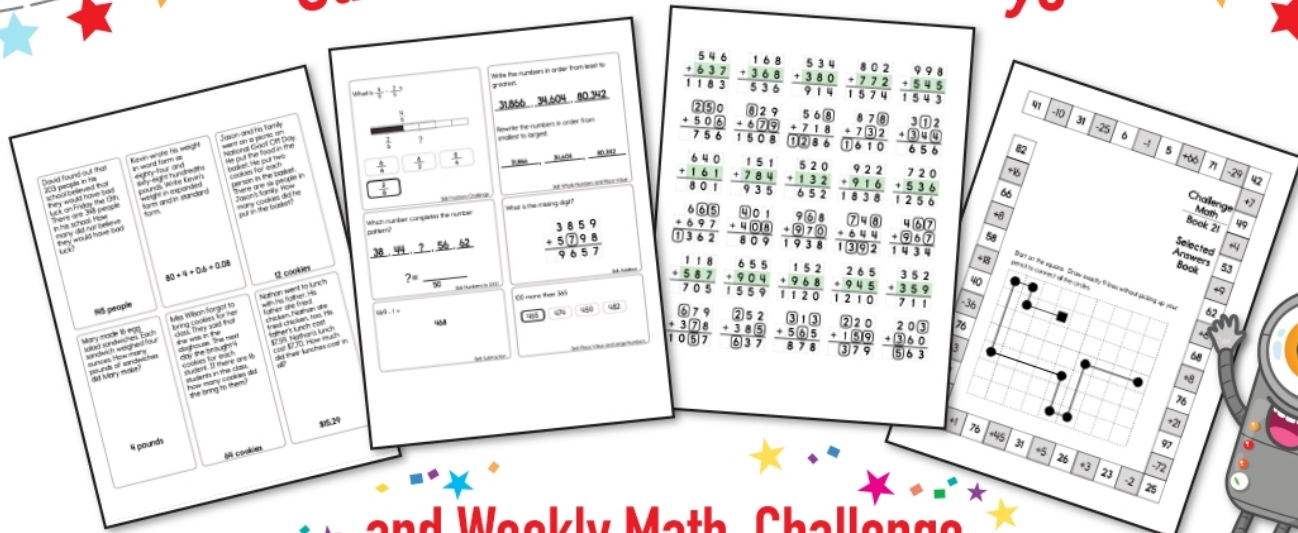
When the ballots in box 1 were counted, there were 5,340. In box 2 there were 4,840, and in box 3 there were 2,794. Anne received  $\frac{1}{3}$  of the votes. How many votes did she receive?

The diameter of a U.S. quarter is about  $\frac{15}{16}$  inches. If 47 of them were placed face-down, touching each other in a row, how long would the row be?

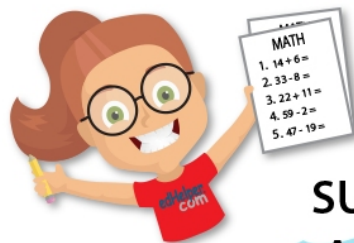
If you distribute something to a group, you give out one or more of each of that thing to each member of the group. In the expression  $3x + 9x$ , what is being distributed?

Ms. Floop's garage is  $2\frac{1}{5}$  times the size of Mr. Bloop's garage. The size of Ms. Floop's garage is what percent of Mr. Bloop's garage? Round your answer to the nearest percent.

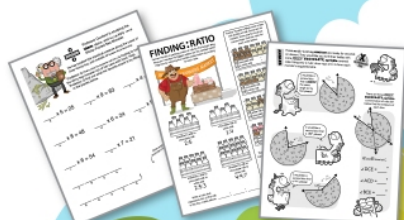
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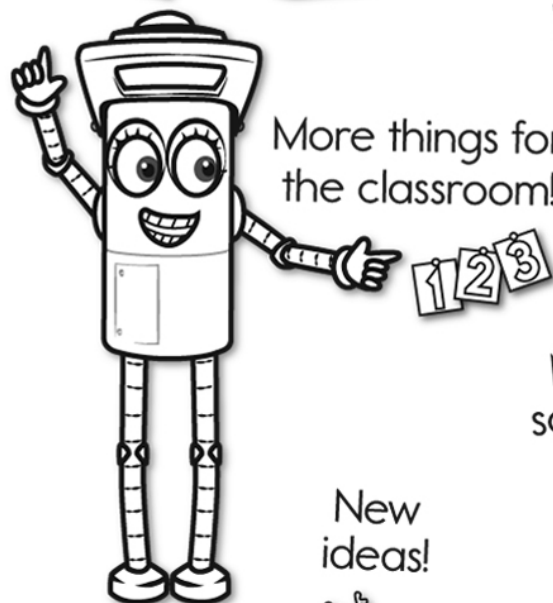


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