

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.

8+	2	7+	1	3	17+
	6+		7+		
2		11+		8+	
11+	10+		8+	6+	3
		7+			8+
			5		4

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

$$\underline{\quad} + 3 = 7$$

$$4 + \underline{\quad} + \underline{\quad} = 11$$

$$\underline{\quad} + \underline{\quad} + 1 = 7$$

$$1 + \underline{\quad} = 6$$

$$6 + \underline{\quad} = 11$$

$$1 + \underline{\quad} = 6$$

$$\underline{\quad} + 4 + \underline{\quad} = 8$$

$$\underline{\quad} + \underline{\quad} + 6 = 17$$

$$3 + \underline{\quad} + \underline{\quad} = 7$$

$$5 + \underline{\quad} = 8$$

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"Hey, Ted!" called out his friends. But Ted didn't reply. He was texting. They don't call him Texty Ted for nothing! Ted sends an average of 50 texts in only 4 minutes. At precisely 3:24 Ted finally sat down outside of school to play his phone. He played his phone until 3:53 when his phone ran out of power. How many texts do you think Texty Ted sent?

Gavin has a headache. He can't stand long lists. "Can you repeat that again?" he asks. "It's easy. Name a number that is greater than 5, less than 17, is a multiple of 2, and FINALLY is a factor of 36," replies Nathan.

Give two answers for  $x$  in each equation.

$$|x + 7| = 3$$

$$|x - 13| = 8$$

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Three-fourths of a number equals 1,800. What is the number?

A number minus 6 is fifty-three. What is the number?

633 exceeds eleven times a number by 94. What is the number?

Twenty-six more than four-fifths of a number equals 154. What is the number?

Five times a number, increased by twenty-nine, equals seventy-nine. What is the number?

If ten is added eighteen times to a number, the result is 182. What is the number?

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Twenty-one less than 7 times a number is 42. What is the number?

Two-fourths of a number equals 20. What is the number?

The sum of thirty-four and thirty-four is sixty-three more than a number. What is the number?

Eighty-six more than a number is one hundred forty-six. What is the number?

If a number is increased by 66, the result is 135. What is the number?

70,000 and 3,000,000 added to a number is 3,447,130. What is the number?

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Cross off the number that does NOT belong. Hint: Look for alternating sequences. Every third number is the greatest common factor.

3, 18, 3, 6, 30, 6, 9, 42, 50, 3, 12,

54, 6, 15, 66, 3, 18, 78, 6, 21, 90

Why does \_\_\_\_\_ not belong in the pattern?

Cross off the number that does NOT belong.

(8) , (4) ,

(3) , (2) , (1) ,

$\frac{1}{2}$  ,  $\frac{1}{4}$  ,  $\frac{1}{8}$  ,  $\frac{1}{16}$  ,  $\frac{1}{32}$

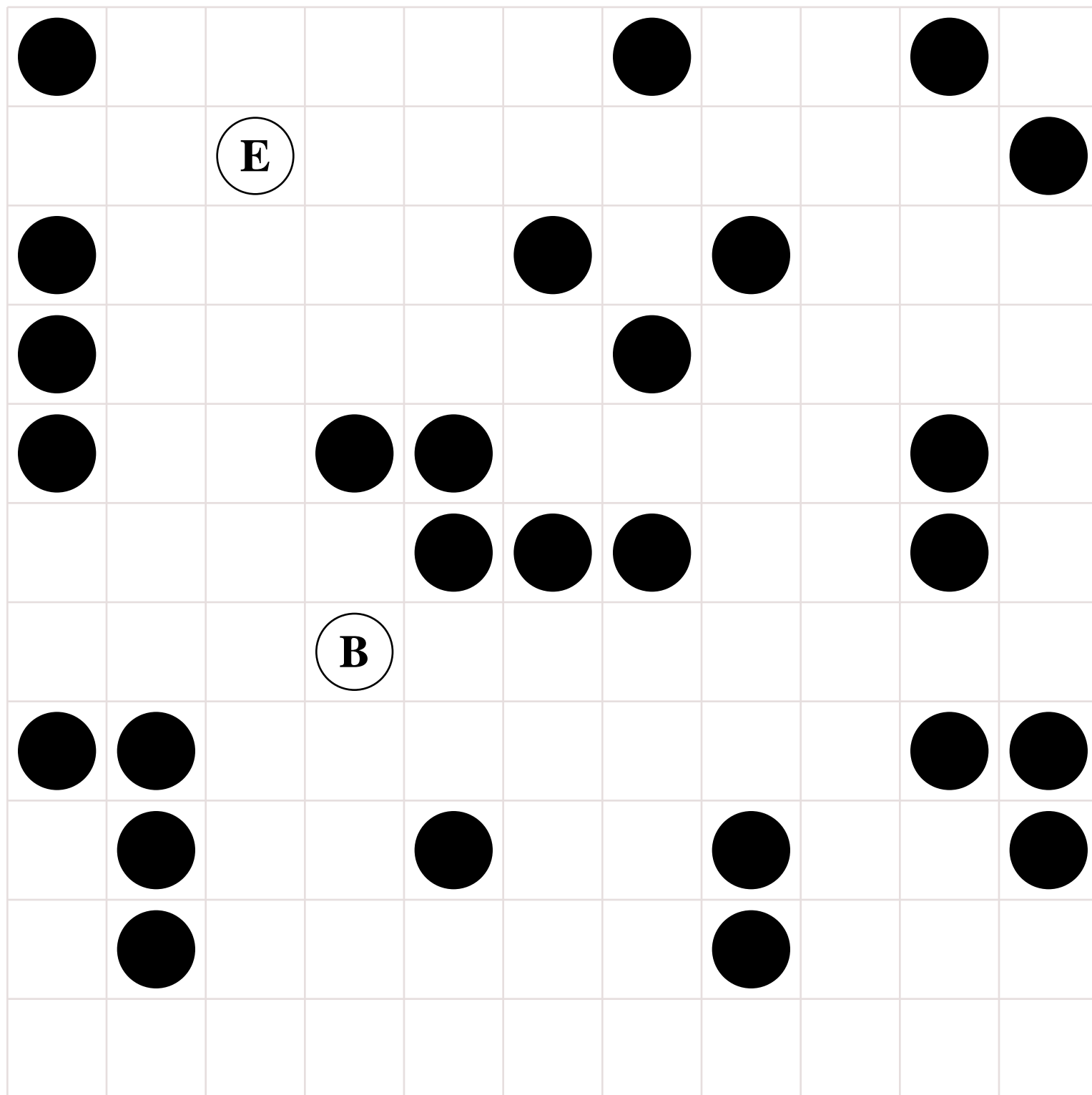
Why does \_\_\_\_\_ not belong in the pattern?

Name \_\_\_\_\_



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.



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



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Get a fidget spinner! Spin it.

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

8, 13, 20, 29, 40, 53,  
\_\_\_\_\_, 85, 104, 125

Simplify.

$$\frac{16,500}{23,100} =$$

Simplify.

$$\frac{30}{48} =$$

At the dive meet Connor received scores of 8.2, 9.6, 9.9, 7.3, and 7.1. The largest and smallest scores were dropped and the rest were averaged for a final score. What is the final score Connor received?

Circle the least amount:

20%

0.50

$$\frac{3}{25}$$

Rewrite as an algebraic expression or equation.

The quotient of  $w$  and 15 is 10.

Circle the percentage that is closest to 36 out of 65:

44%

81%

15%

65, \_\_\_\_\_, 95, 110, 125,

140, 155, 170

$$2 \times 9 + 9 + 2 - 3$$

$$5 + (72 \div 6) - 63 \div 7 =$$

$$(10 + 11) + 5 = 2(v + 9)$$

What is the value of  $v$ ?

$$0.2 (0.6 (0.2 + 7)) =$$

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$$35 \overline{) 359}$$

$$45 \overline{) 1620}$$

$$5 \overline{) 50}$$

$$45 \overline{) 900}$$

$$27 \overline{) 504}$$

$$4 \overline{) 144}$$

$$42 \overline{) 2520}$$

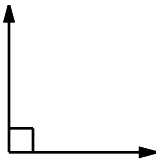
$$54 \overline{) 603}$$

$$22 \overline{) 792}$$

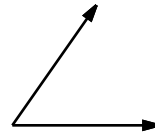
$$12 \overline{) 373}$$

$$72 \overline{) 720}$$

$$20 \overline{) 720}$$



What kind of angle is this?



What kind of angle is this?

What is the remainder of  
150 divided by 19?

$$7 \times 2 + 4 + 10 - 7$$

$$|-13| + y = 7$$

$$y =$$



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$48 : 6 = 40 : \underline{\hspace{1cm}}$

- 3
- 7
- 5
- 9

$60 : 6 = \underline{\hspace{1cm}} : 5$

- 5
- 50
- 7
- 8

Which of the following is closest in value to 6084?

- 6,174
- 6,203
- 5,980
- 6,201

$2^1 + 2^2 + 2^3 =$

- 14
- 13
- 11
- 17
- 15

8 is a factor of

- 180
- 103
- 89
- 161
- 152

Which ratio equals 126:12?

- 4:21
- 22:4
- 21:2
- 5:27

$1^0 + 1^1 + 1^2 + 1^3 + 1^4 + 1^5 =$

- 5
- 4
- 7
- 8
- 6

Which ratio equals 132:156?

- 15:20
- 32:28
- 22:26
- 25:20

Circle the answer closest to 48 weeks.

- 325 days
- 383 days
- 388 days
- 311 days

If 10 out of 20 kids passed level 1 in the new game Gazimeo, what percent of the kids did not pass level 1?

- 45%
- 50%
- 50%
- 55%

Which is the same value as the "1" in 6,172?

- $10^5$
- $10^0$
- $10^2$
- $10^4$

Emma practices jump roping everyday. She had 34, 21, and 31 jumps on her first three tries. What must she average on her next two jumps to get an average of 28 jumps for her five jumps?

- 43.5
- 37
- 27
- 41

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381 is how much more than  
495?

$$\begin{array}{r} 952 \\ + 19 \\ \hline \end{array}$$

$$\begin{array}{r} 40,147 \\ - 31,327 \\ \hline \end{array}$$

$$6 \overline{)516}$$

Divide and write remainder.

$$22 \div 5 =$$

$$66 \overline{)74}$$

Divide and write remainder.

Divide and write remainder.

$$1551 - 2571 =$$

$$\begin{array}{r} 281 \\ + 51 \\ \hline \end{array}$$

Find the difference  
between 326 and 72.

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

$$\begin{array}{r} 362 \\ \times 85 \\ \hline \end{array}$$

$$\begin{array}{r} 2,772 \\ 6,832 \\ + 3,592 \\ \hline \end{array}$$

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$$\begin{array}{r} 4.34 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 549.627 \\ + 9.955 \\ \hline \end{array}$$

$$10 \times 14.68 =$$

$$\begin{array}{r} 7.4 \\ \times 54.32 \\ \hline \end{array}$$

$$\begin{array}{r} 3.896 \\ - 1.1 \\ \hline \end{array}$$

$$\begin{array}{r} 16.5 \\ + 12.63 \\ \hline \end{array}$$

$$\begin{array}{r} 2.85 \\ \times 2.3 \\ \hline \end{array}$$

$$\begin{array}{r} 34.2 \\ \times 82.32 \\ \hline \end{array}$$

$$\begin{array}{r} 18.06 \\ \times 0.9 \\ \hline \end{array}$$

Rewrite as a vertical equation and solve.  
 $4.91 + 4.91 + 37.88 + 862.5 + 912.3459$

$$0.21 \overline{) 0.4641}$$

Change  $\frac{9}{20}$  to a decimal.

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Aaliyah will give a speech at her school on the first day of Ramadan. She will talk about the Month of Fasting and what it means to Muslims. She has been given 20 minutes for her speech. So far, she has written 9 minutes and 13 seconds of the speech. How much more time does she have for her talk?

Nathan was in trouble. He had used all of his father's masking tape to put his baseball bat back together. Now his father needed the tape and, to make it worse, his bat was falling apart again! His father told Nathan since he had used one-fourth of his tape, he could pay one-fourth of the cost of a new roll. If the new roll of tape costs \$1.43, how much will Nathan have to pay?

$$642 \div 12$$

In what quadrant would you find the point (5, -1)?

Simplify.

$$\frac{16}{20} =$$

Tallman's Turkeys raised 4,183 turkeys in 2004. Trenton Turkeys raised 1,857 more turkeys than Tallman's. Write an equation and solve it to find the number of turkeys that Trenton raised.

If two fractions are not in the same fraction family, can they still form a proportion?

Justin had 16 boxes. He also had 100 bar magnets he needed to ship to Littleville. He could fit 25 bar magnets in a box. He expected to ship another 105 bar magnets next week. Does he have enough boxes? If not, how many more does he need?

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Hunter ran a mile in 5:42.66 and this week he improved to 4:55.38. How many seconds better was his time this week?

A rectangular sign advertising the Life Evaluation Conference was put up near the conference hotel. It had a length of 28 feet and a perimeter of 106 feet. What was the sign's width?

Robert counted the seeds in 15 apples and found out that there was an average of 8.34 seeds per apple. At that rate, how many seeds would there be in 27 apples?

$$\frac{19}{24} \div \frac{4}{6} =$$

$$(7 + 15 + 6 + 9) =$$

Rewrite  $\frac{8}{25}$  as a decimal.

Nathan made copies of 5 of Ms. Bradstreet's poems. He wanted to put them up on the wall in a row. If their order was not important, how many different combinations of poems are possible?

Erin erected a fence that covered an area in the shape of a trapezium. The sides were all some multiple of a given unit (z). If the side lengths were z, 1.5z, 2.3z and 3z, how long was the fence if z was equal to 10 feet?

April used a standard metric ruler to measure the length of a piece of yarn she was using for a project. The yarn was as long as 45 of the smallest divisions on the ruler. How many centimeters long was the piece of yarn?

The letter V has an unknown value. If you multiply V by fifteen, the product is three. What value does V have?

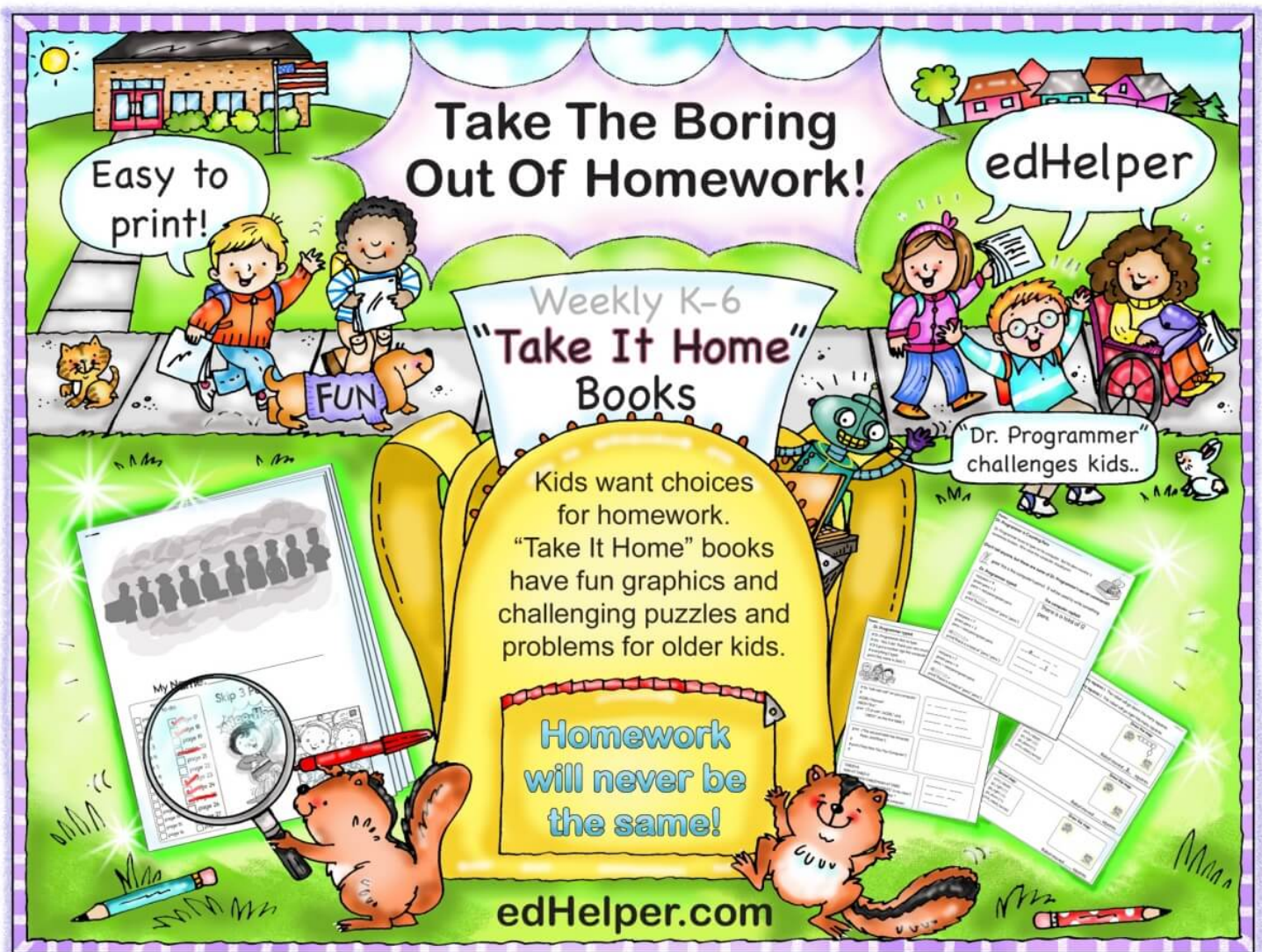
$$|-15| + b = 12$$

$$b =$$

What is the greatest common factor of the numbers 72 and 60?







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$$\frac{N}{22} = 50$$

$$5n = 45$$

$$9n = 27$$

$$\frac{N}{4} = 10$$

$$18n = 54$$

$$\frac{66}{N} = 6$$

$$38y = 684$$

$$1120 = 35m$$

$$\frac{N}{44} = 25$$

$$\frac{N}{8} = 8$$

$$6y = 30$$

$$\frac{N}{6} = 12$$



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When you divide 39 by 5, you will get a quotient of 7 with a remainder of 4.

How many other different remainders can you get if you divide other whole numbers by 5? Give an example of each.

Mary is writing a computer program. In her program she made a pattern where she repeatedly is assigning numbers to colors.

The pattern is:  
orange, orange, orange, purple, blue.

Her program starts assigning numbers to colors like this:

2 = orange, 3 = orange, 4 = orange,  
5 = purple, 6 = blue, 7 = orange,  
8 = orange, 9 = orange, 10 = purple,  
11 = blue, 12 = orange, 13 = orange,  
14 = orange, 15 = purple, 16 = blue

The program keeps running through the numbers.

When it gets to 34, it prints

34 = \_\_\_\_\_.

a. Write any eight consecutive odd numbers. Find the sum and divide that sum by 8. What is the remainder?

b. Write any seven consecutive odd numbers. Find the sum and divide that sum by 7. What is the remainder?

Circle the choice that has the greatest value.

a.  $4^2 + 2^2$  or  $(4 + 2)^2$

b.  $(18 + 26)^2$  or  $18^2 + 26^2$

c.  $(39 + 25)^2$  or  $39^2 + 25^2$

d.  $(3 + 2)^3$  or  $3^1 + 2^3$

e.  $3^2 - 1^3$  or  $(3 - 1)^3$

f.  $8^3 - 5^2$  or  $(8 - 5)^3$

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Maria is trying to figure out how many different remainders she can get when she divides by 5. She started dividing 76 by 5, then 77 by 5, and so on. Show her how many different remainders can be made.

What would happen if you divide larger numbers like 760 by 5? Can you get different remainders?

Erin has 21 at-bats with 14 hits. To calculate her batting average, Coach April takes hits and divides that by at-bats. She rounds the quotient to the nearest thousandth. What is Erin's batting average?

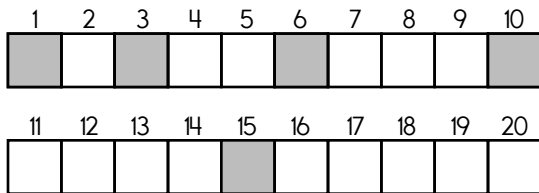
On her next at-bat, Erin strikes out. Should her batting average go up or down?

Wendy wrote a program to make a pattern. The program started printing out the pattern:

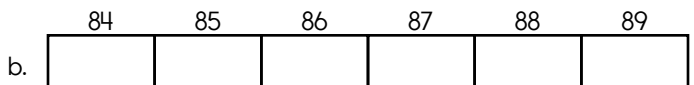
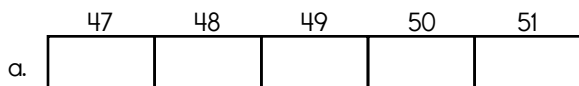
35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85

The 5th number in the pattern is 55. The 249th number in the pattern is 1,275. What is the 259th number in the pattern?

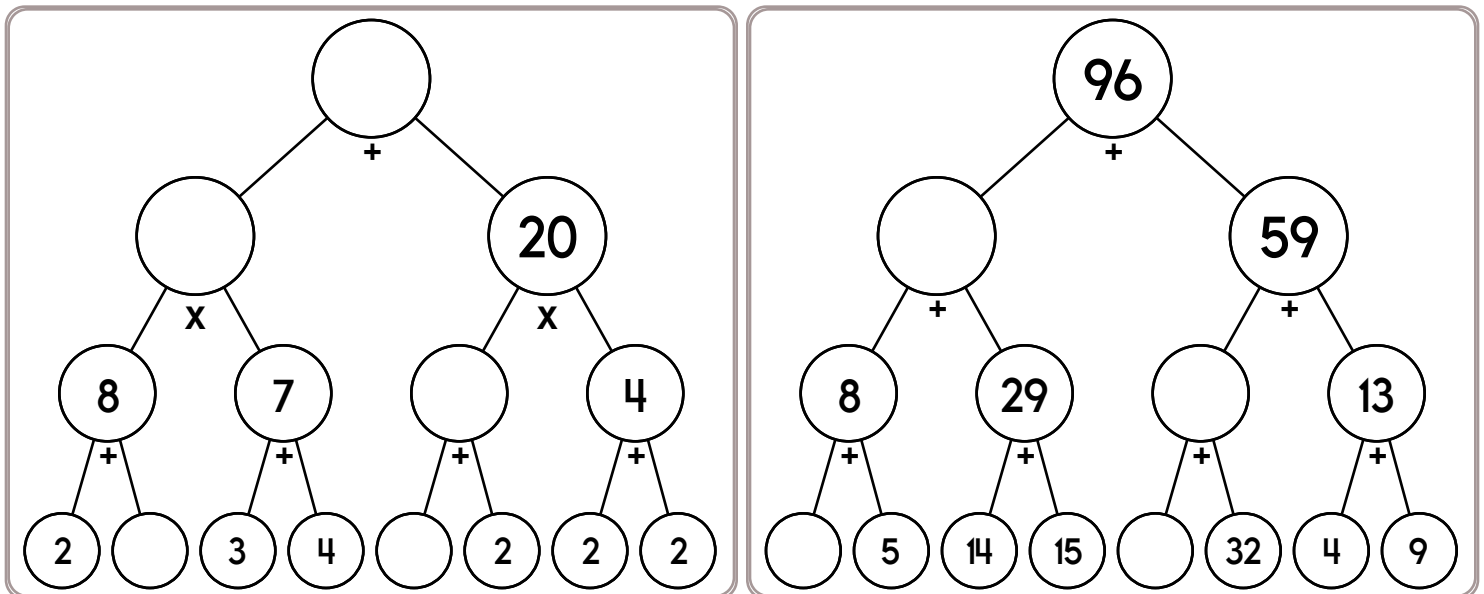
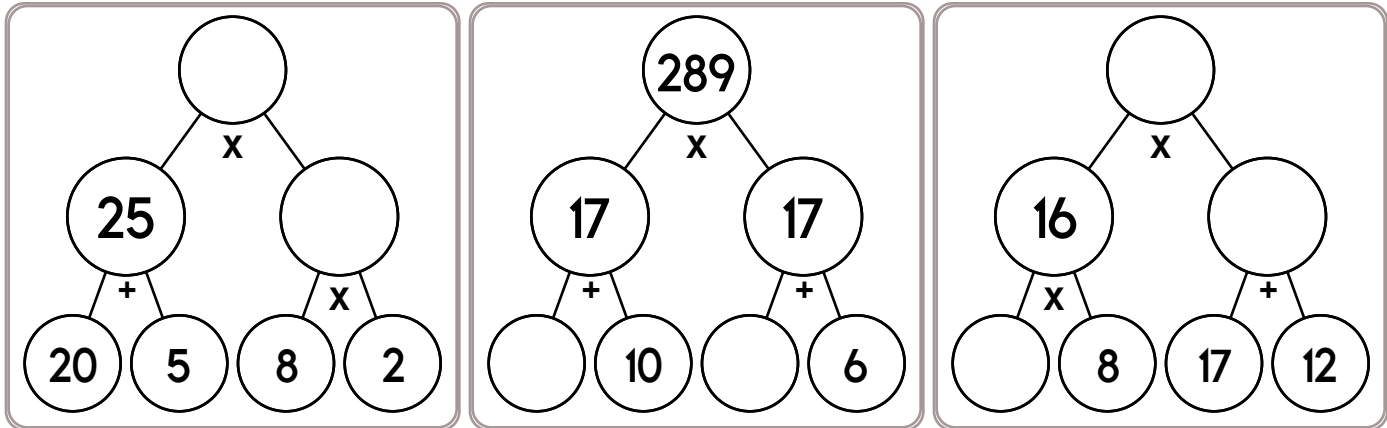
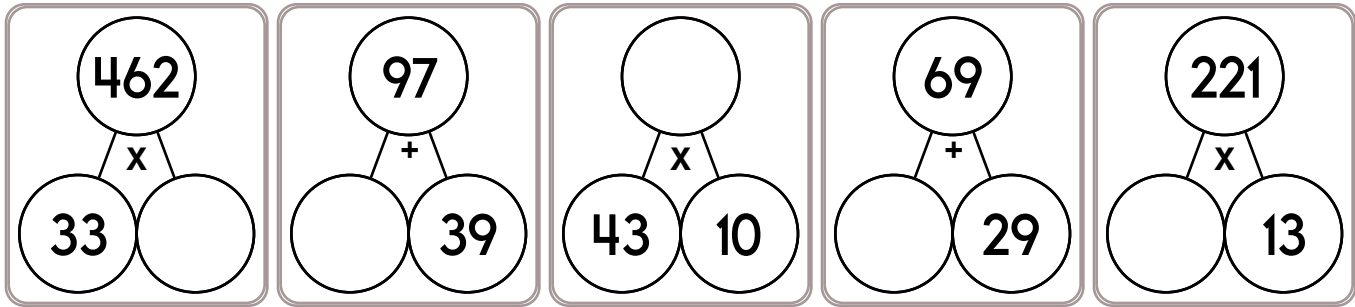
What is the 719th number in the pattern?



If this pattern continues, color how these squares would look:



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Each side of a regular pentagon is 95.5 centimeters. What is the perimeter?

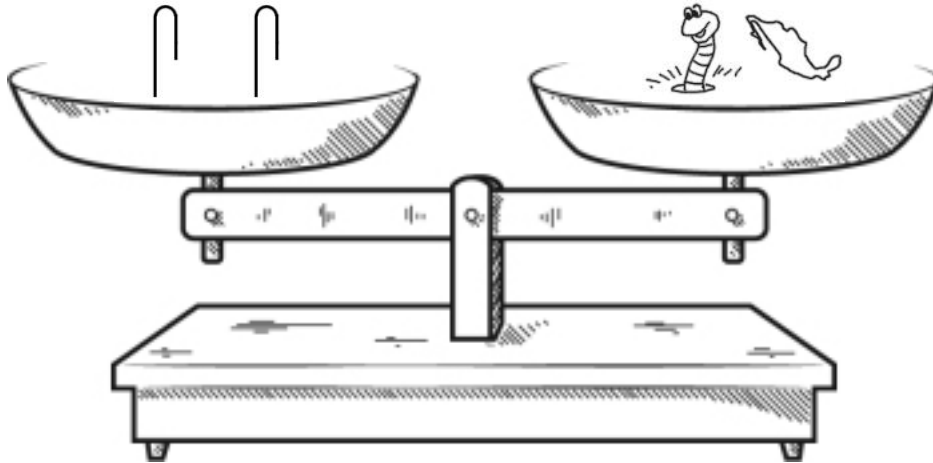
$21 - t + 11 = 17$   
What is the value of  $t$ ?

$0.5 (0.4 (0.5 + 6)) =$

word root **inter** can mean **between or among**

**interaction, intercept, intervention**

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It may help to give values to pictures.

$$\text{paper clip} = 7$$

$$\text{map of Mexico} = 1$$

$$\text{snake} = \underline{\hspace{2cm}}$$

You should only mark TRUE if you are absolutely sure it is correct!

☐ True
 ☐ False

☐ True
 ☐ False

☐ True
 ☐ False

☐ True
 ☐ False

Did you find that three are true? If not, look again!

word root **ferous** can mean **producing** **vociferous**

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Kyle's pool has two hoses that pour water. The first hose can fill up the pool in 43 minutes and the second hose can fill up the pool in 1 hour and 38 minutes. Kyle also has a pump that takes out water. It can empty the pool in 1 hour and 32 minutes. If Kyle has an empty pool and turns on both hoses and the pump at the same time, how long will it take to fill up the pool?

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

A train carrying coal took 43 hours and 20 minutes to travel from Boston to Cleveland. A passenger train started from Boston and reached Cleveland in 18 hours and 4 minutes. The passenger train was traveling at an average rate of speed that was six mph more than two times the speed of the coal train. How fast was each train traveling?

Rebecca started a new business manufacturing shirts. She had to pay \$5,800 for the equipment. Each shirt costs \$2.25 to make and will be sold at \$3.75. How many shirts will Rebecca need to sell to cover her initial cost of the equipment and to also make a profit of \$10,600?

Daniel can complete a project in twelve days, and Dylan can do the same project in twenty-four days. Daniel worked on the project alone for two days before Dylan joined him. How many days did Daniel work on the project until it was done?

Kyle drove 10 kilometers at a constant rate of speed. If he had driven 4 kph faster, he would have traveled the same distance for 5 minutes less. How fast did he drive?

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Brian's dimes and pennies total \$3.11. If the dimes were replaced by pennies and the pennies were replaced by dimes, then he would have \$6.35. How many of each coin does he have?

Makayla pays four cents per minute for calls on her cell phone made during the weekend. For calls during the week, Makayla pays fifteen cents per minute. This month, Makayla's phone bill was \$18.50. She paid for two hundred seventy minutes. How many minutes did Makayla use her cell phone during the week (non-weekend calls)?

Sydney owns a printing shop. The shop has six printers that can each print one thousand pages per hour. Rachel called Sydney to place an order that requires 11,000 prints. Rachel would like the order to be completed as soon as possible. If Sydney uses all her printers at the same time, how long will it take to complete the order?

The product of two consecutive even integers is five thousand, one hundred eighty-four more than twelve times their sum. What are the two integers?

There are three consecutive odd integers. Half the sum of the first and third numbers is 54. What are the integers?

If ten is added seventeen times to a number, the result is 200. What is the number?

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Emma is very secretive. She didn't tell her friend Sara how many points she got in the first round of the game. But Sara knows that Emma got 850 points in the second round, 4,950 in the third round, and that her average score is 3,650. Can you figure out how many points Emma got in the first round?

I am a whole number. One of my factors is 6. One of my digits is 6. I am less than 70. What number am I?

Reduce  $\frac{63}{153}$  to its lowest terms.

$$6 + \frac{4}{9} - \frac{3}{4} =$$

Reduce  $\frac{96}{120}$  to its lowest terms.

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Max and Maria are a team. Max makes robots, and Maria fits them for fancy robot clothes.

They have two models. Model One is very small at only 6.3 inches. The other is bigger, but Max only gave Maria a calculation as the robot is still in production. Max wanted it to be 4 times the size of Model One, but it turns out the prototype is 6.3 inches shorter than that. How big is the prototype?

At the mud factory, Purple's job is to scoop up mud and make it into kilogram blocks of mud. She loves her job! Today there were 966,360,536 milligrams of mud trucked in. Each mud block is precisely 1 kilogram, no less, no more. How many mud blocks can she make today?



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What is  $\frac{2}{3}$  of 216? Show your work.

8 is 100 times greater than 0.08

400,000 is \_\_\_\_\_ times \_\_\_\_\_ than 0.04

0.39 is \_\_\_\_\_ times \_\_\_\_\_ than 3,900

18,000 is \_\_\_\_\_ times \_\_\_\_\_ than 0.0018

650 is \_\_\_\_\_ times \_\_\_\_\_ than 0.00065

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Sarah needs to make 32 sugar cookies for a big party, but her favorite recipe is only for 16 cookies. The recipe calls for  $1\frac{4}{5}$  cups of sugar. How much sugar will she need to use?

Sally bought a kit to make fidgets. The box says that you can make up to 36 fidgets. Sally tried to make one. It took her 38 seconds to make. How many fidgets can she make in an hour? Assume she takes a 10-second break after making each fidget.

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

$-4.6 \underline{\hspace{1cm}} -4.67$

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

$-1.7 \underline{\hspace{1cm}} -1.8$

$-24 - (11) =$

$30 - (-7) =$

$-(-28) - (11) =$

$(-7.7)(11.2) =$

$(-10.4)(-5.5) =$

Write the reciprocal of each number.

$\frac{17}{8} \underline{\hspace{2cm}}$

$-7 \underline{\hspace{2cm}}$

$14 \underline{\hspace{2cm}}$

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

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

$-6.6 \underline{\hspace{1cm}} 6.62$

$-3 \underline{\hspace{1cm}} -7$

Simplify.

$-|-3| \underline{\hspace{2cm}}$

$|\frac{-4}{8}| \underline{\hspace{2cm}}$

$|\frac{3}{7}| \underline{\hspace{2cm}}$

$(-11)(8) =$

$(-6)(-12) =$

$(-11)(6) =$

$(12.3) - (2.6) - (-2.4) =$

$(-9)(-12) =$

$(5)(-4) =$

$(-10)(-4) =$

$(9.1)(-4.4) =$

$(-9.9)(-11.8) =$

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

$-3.4 \underline{\hspace{1cm}} -3.47$

$-5.80 \underline{\hspace{1cm}} 5.8$

$-8 \underline{\hspace{1cm}} -2$

$17 - (-3) =$

$-(-18) - (11) =$

$-25 - (10) =$

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$$(-7.5) - (-2.7) - (4.2) =$$

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

$$-6.65 \quad \underline{\quad} \quad -6.6$$

$$-8.5 \quad \underline{\quad} \quad 8.3$$

$$2 \quad \underline{\quad} \quad -6$$

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

$$-3.3 \quad \underline{\quad} \quad -3.34$$

$$1.5 \quad \underline{\quad} \quad -1.50$$

$$5.2 \quad \underline{\quad} \quad -5.6$$

$$(6)(-7) =$$

$$(-12)(-5) =$$

$$(-11)(5) =$$

$$(-12.1)(-11.5) =$$

$$(-10.3)(4.5) =$$

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

$$-2.20 \quad \underline{\quad} \quad -2.2$$

$$8 \quad \underline{\quad} \quad -2$$

$$-5.58 \quad \underline{\quad} \quad -5.5$$

Write these numbers in  
order from least to  
greatest:

$$11, \frac{-3}{7}, 0, 3\frac{-1}{5}, -3$$

Simplify.

$$-\left(\frac{3}{6}\right) \quad \underline{\hspace{2cm}}$$

$$-\left(\frac{-4}{6}\right) \quad \underline{\hspace{2cm}}$$

$$-(1) \quad \underline{\hspace{2cm}}$$

$$(11.1) - (-2.8) - (-1.2) =$$

$$15 - (-7) =$$

$$-(-26) - (9) =$$

$$20 - (-5) =$$

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

$$(7)(-11) =$$

$$(11)(-4) =$$

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

$$-2 \quad \underline{\quad} \quad -9$$

$$6.60 \quad \underline{\quad} \quad -6.6$$

$$1.5 \quad \underline{\quad} \quad -1.52$$

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Forty multiplied by ten raised to what power equals ?

Erin is working on a little tire for a toy car. In fast mode, the tire will rotate 15 times per second. In slow mode, it rotates 5 times per second. Erin put the car on fast mode and let it run for 2.1 minutes. How many times did the little tire rotate during this time?

Wendy likes to spend money at the mall. Her brother tells her that she likes to WASTE her money. She bought 5 pairs of earrings and a makeup kit. Altogether it came to \$37.29. The makeup kit was \$17.89. The earrings were all the same price. How much did each pair of earrings cost?

Maria likes to make her own board games with special dice. In her latest creation, each die has 7, 8, 9, 10, 11, and 12. If you have to roll two of these dice for each move, what is the most likely outcome for your first move?

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Seven multiplied by ten raised to what power equals seven hundred thousand?

Anna likes to make her own board games with special dice. In her latest creation, each die has 0, 2, 4, 6, 8, and 10. If you have to roll two of these dice for each move, what is the most likely outcome for your first move?

At the mall, April bought a shirt that cost \$21.50 before tax. After adding sales tax, she had to pay \$22.58. What is the sales tax rate as a percent?

Hannah has 180 US dollars, but she wants to exchange her money for Euros. The bank has a sign that says 1 Euro = 0.84 US dollars. If she exchanges her US dollars into Euros, how many Euros will she get?

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

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 6 ↓	sum of 10 →				
	sum of 7 ↓	sum of 8 →		sum of 4 ↓	sum of 6 ↓
sum of 7 →	2		sum of 3 →		
sum of 6 ↓	sum of 7 →	2			
	sum of 5 ↓	3	sum of 12 ↓	sum of 4 →	
			sum of 5 ↓	sum of 3 ↓	
	sum of 9 →				
sum of 10 →					

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

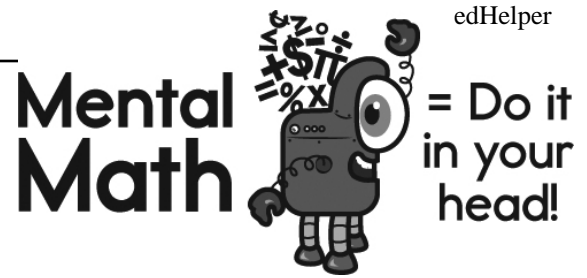
$\begin{array}{r} 49 \\ + 45 \\ \hline \end{array}$	Megan rolls a die. What is the chance of her rolling a 1? _____	$48 \div 12 = \underline{\hspace{2cm}}$	$\begin{array}{r} 62 \\ - 32 \\ \hline \end{array}$
---	--	---	---

Holly rolls two dice. She adds the numbers on the two dice. What is the chance of this sum being nine?  <div> <math>12 \times 9 = \underline{\hspace{2cm}}</math> </div>	Can 812 be evenly divided by 11? Circle: 812 is evenly divisible by 11 812 is NOT evenly divisible by 11
--	--

$6 \times 7 = \underline{\hspace{2cm}}$	$6,133 + 5,756 = \underline{\hspace{2cm}}$	$\begin{array}{r} 386 \\ + 258 \\ \hline \end{array}$
	$90 \div 9 = \underline{\hspace{2cm}}$	

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

Only use a pencil to write the numbers on the blank lines. You do not need any scrap paper! Solve it in your head. If you forget a number, then start over. Cool, huh?



imagine 6 in your head

multiply 11

add 4

Write the ones digit.

\_\_\_\_\_   
 A

imagine 7 in your head

multiply 9

subtract 7

double it

Add the tens digit to the ones digit. Write the sum.

\_\_\_\_\_   
 B

imagine 4 in your head

add 3

subtract 4

multiply 4

add 6

double it

Write the ones digit.

\_\_\_\_\_   
 C

imagine 8 in your head

double it

subtract 7

add 7

add 9

Write the tens digit.

\_\_\_\_\_   
 D

What is the sum?

A + B + C + D

\_\_\_\_\_

Wow! Great job! That's the answer, but do you know how to SPELL the number?

\_\_\_\_\_ v \_\_\_\_\_

1 before 17 \_\_\_\_\_

7 after 18 \_\_\_\_\_

2 before 12 \_\_\_\_\_

7 before 14 \_\_\_\_\_

2 after 17 \_\_\_\_\_

3 before 13 \_\_\_\_\_

6 before 15 \_\_\_\_\_

4 after 12 \_\_\_\_\_

8 before 18 \_\_\_\_\_



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:  $1\frac{5}{9}$ ,  $6\frac{4}{9}$ , or  $7\frac{3}{5}$ .

The other three numbers have to all be DIFFERENT and must be from these:  $4\frac{8}{9}$ ,  $\frac{7}{9}$ ,  $3\frac{2}{9}$ , or  $9\frac{1}{9}$ .

	$4\frac{8}{9}$				$4\frac{8}{9}$	
$6\frac{4}{9}$	$15\frac{1}{3}$	$3\frac{2}{9}$	$14\frac{2}{3}$		$14\frac{2}{3}$	$10\frac{4}{9}$
	$\frac{7}{9}$					
$7\frac{3}{5}$	$20\frac{32}{45}$		$14\frac{2}{3}$		$16\frac{1}{3}$	$19\frac{5}{9}$
	$23\frac{2}{3}$		$10\frac{4}{9}$		$18\frac{7}{9}$	$21\frac{2}{9}$
	$21\frac{2}{9}$		$15\frac{1}{3}$			$16\frac{1}{3}$
	$24\frac{37}{45}$		$16\frac{22}{45}$			

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

Find 2 equations hidden in each box. Good luck!

$2 - 2$

$3 \times 7$

$8 + 1$

$2$   
 $1 \times 7$

16

12

$7 + 5$

9

3

40

15

$9 + 5$

$8 \times 1$

Write 2 equations: \_\_\_\_\_

30

$9 + 2$

$7 \times 9$

$0 \times 7$

$1 \times 4$

5

17

$1 \times 5$

48

3  
40

$4 \times 8$

15

$8 - 3$

Write 2 equations: \_\_\_\_\_

4

$0 + 6$

$1 \times 3$

15

54

$7 - 5$

24

$4 \times 5$

$5 \times 5$

45

$3 + 8$

63

11

6

Write 2 equations: \_\_\_\_\_

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

Find 2 equations hidden in each box. Good luck!

$7$   
 $3 + 9$   
 $8$        $6$   
 $48$        $11$        $16$   
 $9 \times 3$   
 $6 \times 5$   
 $9 + 8$   
 $7 - 0$   
 $7 \times 7$   
 $15$        $21$        $49$   
 $8 - 5$

Write 2 equations: \_\_\_\_\_

$8 + 2$        $40$        $5 \times 5$        $8$   
 $9 + 3$        $9 + 8$        $3 \times 1$        $8 \times 8$   
 $3 \times 5$        $3 + 2$        $10$        $18$        $5 \times 6$        $6$   
 $3$        $4 \times 4$

Write 2 equations: \_\_\_\_\_

$17$        $7 - 7$        $6$        $2 \times 4$   
 $45$   
 $2$        $35$        $72$        $9 \times 5$   
 $8 - 2$        $9 \times 9$        $9 + 1$   
 $25$        $13$        $18$

Write 2 equations: \_\_\_\_\_

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

Find 60% of 210.

Change 8% to a decimal.

Change  $\frac{5}{25}$  to a decimal.

Find 44% of 89.

Change to percents.

.80 =

.69 =

.59 =

.34 =

.29 =

.06 =

.05 =

.86 =

.93 =

Change 0.47 to a percent.

Change  $\frac{50}{100}$  to a percent.

Find 6% of 65.

Change  $\frac{16}{25}$  to a decimal.

Change 24% to a decimal and a fraction expressed in its lowest terms.

168 is what percent of 280?

26 is what percent of 104?

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

$7 \times 43 =$

- A) 301
- B) 221
- C) 501
- D) 311

What is the best way to estimate  $395 \times 16,254$ ?

- A)  $400 \times 20,000$
- B)  $450 \times 20,050$
- C)  $1,800 \times 10,000$
- D)  $1,500 \times 30,000$

Which of the following has the smallest value?

- A) 25.7
- B) 2.570
- C) A and B are equal.

Which of these is a prime number?

- A) 40
- B) 43
- C) 25
- D) 35

Which of the following numerals has a 5 in the hundredths place?

- A) 7.8657
- B) 8.5768
- C) 4.6578
- D) 9.5867

What is 5,598,389 rounded to the nearest hundred thousand?

- A) 5598000
- B) 8685318
- C) 5600000
- D) 5598390



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

Get a fidget spinner! Spin it.

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

$$6 \times 27 \div 3 - 49 \div 7 =$$

Circle the greatest amount:

36%

0.29

$$\frac{8}{25}$$

$$19s - 14.4 = 42.6$$

$$s =$$

Find the least common denominator for the fractions  $\frac{6}{35}$  and  $\frac{3}{10}$ .

A circle graph has five sections. Only four sections are labeled. The labels are 26%, 9%, 11%, and 5%. What should the missing section be?

What is the area of a rectangle with a length of 18 centimeters and a width that is  $\frac{1}{2}$  the length?

$$2 \times 2 \times 2 \times 2 \times 2 = x^5$$

What is the value of x?

If  $x = -8$  and  $g = 54$  then what is  $7x + 14g - 3g = ?$

$$8 + 10 \cdot 9 + 5$$

Simplify.

$$\frac{13,200}{23,100} =$$

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

$$16\% \text{ — } \frac{2}{10}$$

$$\frac{1}{5} \text{ — } 13\%$$

$$\frac{2}{5} \text{ — } 40\%$$

$$|-6| - t = 3$$

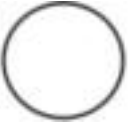



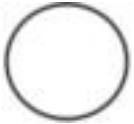


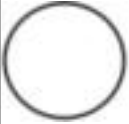

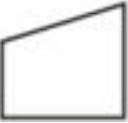


$$t =$$

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

Each row, column, and box must have the numbers 1 through 6. The first box is done.

2	6	1	4		
5	4	3			1
		2		6	
	1		5	4	
			1		6

Each row, column, and box must have 6 different pictures.

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

			x		-		=	
+	C	B	B					30
+	?	B	C					36
=	B	C	A					33
	18	24	21					

Equations and Hints:

Each letter is a whole number.

Fill in the equations using the chart:

$B + B + C = 24$      $B + C + \underline{\hspace{1cm}} = 21$      $\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} - \underline{\hspace{1cm}} = 30$

$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} - \underline{\hspace{1cm}} = 33$

Additional hints:

$A = C + 3$      $A > 4$

Show Work:

Solve:

$? = \underline{\hspace{1cm}}$



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

Express  $\frac{6}{9}$  as a repeating decimal.

Find the sum of 395 and 82.

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$42 + 98 =$$

Simplify.

$$\frac{7,400}{22,200} =$$

$$y = x + 13$$

$$y = 19$$

What is the value of x?

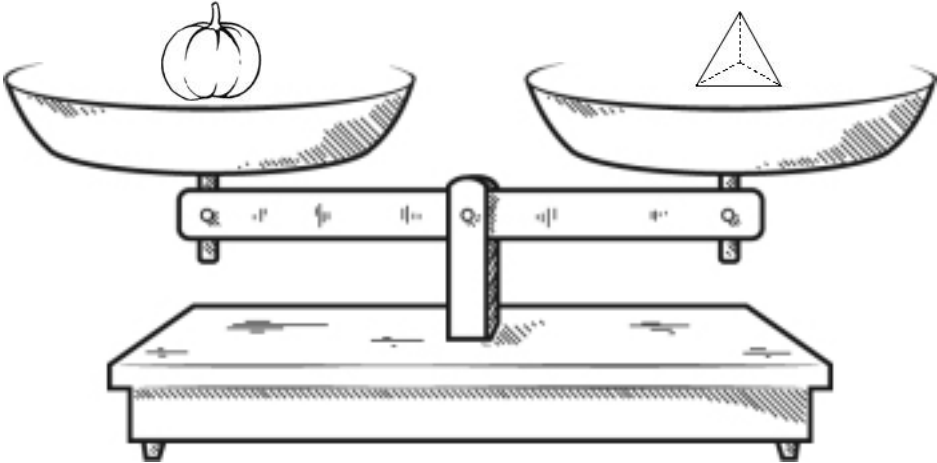
$$3 \times 56 \div 8 - 33 \div 11 =$$



$$6,335 - 2,957 = \underline{\hspace{2cm}}$$

$$1 \text{ kg} = 1,000 \text{ g}$$



$$28 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$$

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










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





☐ True
 ☐ False


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




☐ 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!

$$12 + 11 \cdot 7 + 3$$

$$12.6679 \times 10^2 =$$

If  $a = 9$  and  $b = 69.4$ ,  
 then  
 $3a + b - a =$

How many inches are in 4 feet?  
 \_\_\_\_\_ inches

$$72 \div 6 = \underline{\hspace{2cm}}$$

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

Rosa worked at the fair over the summer and earned \$661. She worked a total of 18 days. About how much money did she earn each day?

What are the two common values of Pi used in calculations involving circles?

At the beginning of a week of hard training, a boxer weighed  $129\frac{1}{4}$  pounds. At the end of the week, he weighed  $126\frac{3}{5}$  pounds. How much weight did he lose during the

Circle the greatest amount:

48%

0.39

$\frac{8}{25}$

Each side of a regular pentagon is 63.3 centimeters. What is the perimeter?

week?  
(0.2)(0.11)

Hunter made copies of 6 of Ms. Bradstreet's poems. He wanted to put them up on the wall in a row. If their order was not important, how many different combinations of poems are possible?

The Bigtown Auto Shop could fix an average of about 83 cars in a five-day workweek. How many cars could it fix on an average day?

Alex needed \$140 to buy the lacrosse stick he wanted. So far he has saved up  $\frac{5}{16}$  that much. How much more does he need to save?

$$23 - t + 6 = 16$$

What is the value of t?


C, \_\_\_\_\_, D, M, E, P,  
F, S, G, V

In what quadrant would you find the point (-2, 12)?

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


**Pay the bill!**

Rent is due. Pam needs to pay her landlord \$3,800. Her landlord's name is Anna White.

PAM	1510
DATE _____	
PAY TO THE ORDER OF _____ \$ <span style="border: 1px solid black; display: inline-block; width: 80px; height: 20px; vertical-align: middle;"></span>	
_____ DOLLARS	
MEMO _____	
	

**Pay the bill!**

Pam received a bill for her cellphone from Mobile Unlimited for \$58.98. Write the check as Pam would write it.

PAM	1511
DATE _____	
PAY TO THE ORDER OF _____ \$ <span style="border: 1px solid black; display: inline-block; width: 80px; height: 20px; vertical-align: middle;"></span>	
_____ DOLLARS	
MEMO _____	
	

Rewrite 17 - 3

\_\_\_\_ + \_\_\_\_ = \_\_\_\_

On a number line, what is the number that is 7 to the left of 3?

Rewrite 8 - 3

\_\_\_\_ + \_\_\_\_ = \_\_\_\_

Simplify.

$\frac{28}{35} =$

$\frac{8}{9} \times \frac{4}{7}$

Rewrite  $\frac{1}{5}$  as a decimal.

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

Twenty exceeds one-third of a number by 11. What is the number?

One-fourth of a number, decreased by 7 is 7. What is the number?

Seventy-nine less than four-fifths of a number equals 17. What is the number?

The sum of a number and  $5\frac{1}{2}$  is 17. What is the number?

Two-thirds of a number equals 32. What is the number?

Eight times a number, decreased by 34.42, equals 77.58. What is the number?

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

7,648 and 6,943 added to the difference between 386 and half of a number is 14,871. What is the number?

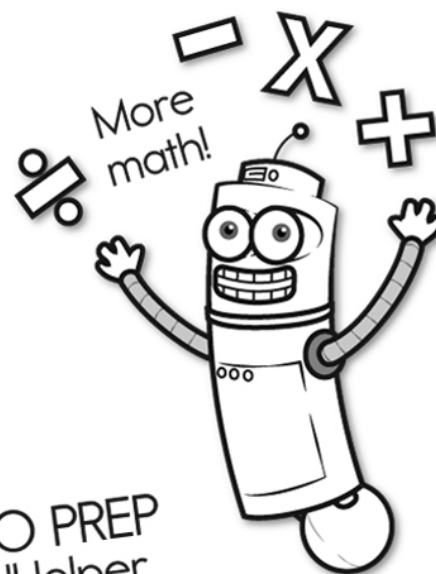
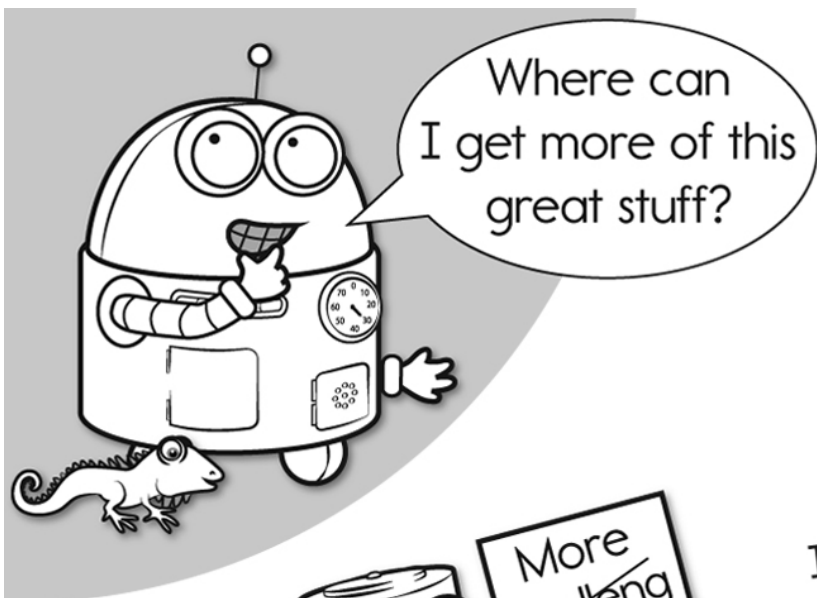
The sum of twenty-four and forty is nineteen more than a number. What is the number?

Negative seven times a number is negative two hundred forty-five. What is the number?

The sum of a number and  $\frac{3}{4}$  is  $1\frac{1}{4}$ . What is the number?

Forty-nine more than a number is negative twenty-three. What is the number?

The difference between 329 and half of a number is 294. What is the number?

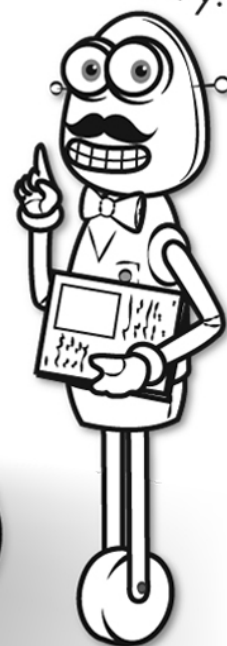


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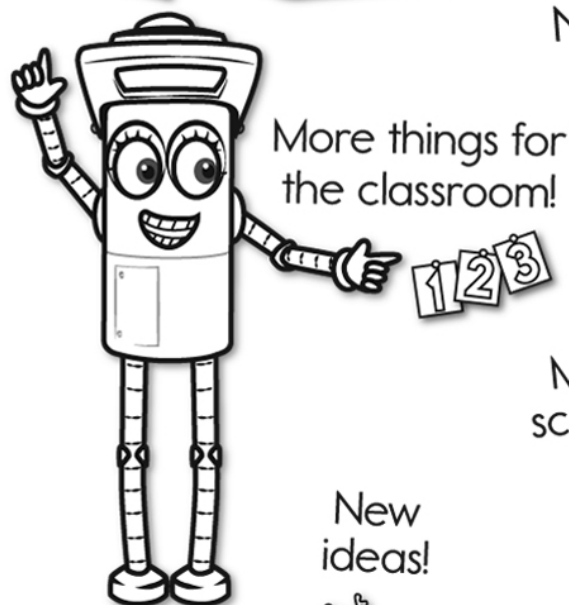
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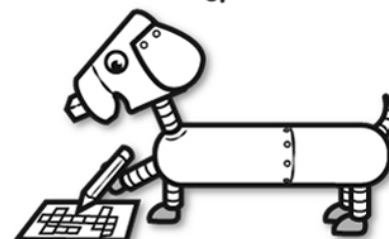


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