

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

Complete each pattern. Write what the rule is.

28586, \_\_\_\_\_, 62858, 85862, 86285, 28586, 58628,

62858, 85862, 86285, 28586, 58628, 62858, 85862

52228, 22852, 85222, 22285, 28522, 52228, 22852,

\_\_\_\_\_, \_\_\_\_\_, 28522, 52228, 22852, \_\_\_\_\_, \_\_\_\_\_

Complete each pattern. Write what the rule is.

18	35	52
69	86	
120		154
171	188	

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

Ready to make equations? There is a missing equation in each box.  
Circle the numbers once you find it!

**A**

13	72	94
53	<b>32</b>	63
39	74	<b>51</b>
<b>83</b>	60	79

Find an addition fact.

**B**

<b>5</b>	42	17
40	74	79
44	38	9
20	13	16

Find an addition fact.

**C**

<b>77</b>	15	90
37	54	51
64	76	48
56	65	21

Find an addition fact.

Equations:

Write the equation facts you found.

<b>A</b>	<b>51</b>	<b>+</b>	<b>32</b>	<b>=</b>	<b>83</b>
<b>B</b>	<b>5</b>	<b>+</b>		<b>=</b>	
<b>C</b>		<b>+</b>		<b>=</b>	<b>77</b>

$132 \div 11 =$

Rewrite these in increasing order of length:

555 dm, 849 m, 11 mm

$$\begin{array}{r} 40 \\ + 25 \\ \hline \end{array}$$

$21 \div 7 =$  \_\_\_\_\_

Circle the smallest number:

83,146,603,894      52,790  
83,120,479          217,556

$$\begin{array}{r} 437 \\ + 479 \\ \hline \end{array}$$

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

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

Use the fewest bills and coins to make \$47.18.

<input type="text"/>	\$20	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	5¢	<input type="text"/>	<input type="text"/>	<input type="text"/>

Use the fewest bills and coins to make \$51.48.

Use the fewest bills and coins to make \$15.48.

Use the fewest bills and coins to make \$54.52.

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

There are 29 students in the Art Club. They all plan to enter a painting in the Mills River Art Contest. Of that number, 40% procrastinated and didn't have a picture completed. How many students have pictures to enter?

Megan shows her friend Jenna a deck of cards. Assuming the cards in the deck are randomly distributed, what is the probability that Megan draws an ace and does not replace it, and then draws another ace?

What number multiplied by -8 results in a product of -48? \_\_\_\_\_

Write the number that when multiplied by 8 is -32. \_\_\_\_\_

Give two answers for x in each equation.

$$|-8 + x| = 9$$

$$|x - 7| = 4$$

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

Write the decimal number  
for:  
eight thousandths

Write the decimal number  
for:  
twenty ten-thousandths

$$\begin{array}{r} 8.55 \\ \times 6.7 \\ \hline \end{array}$$

Write the decimal in words.  
9.01

$$6 \overline{) 2.28}$$

Convert to a fraction or  
mixed number and simplify.

Write the decimal number  
for:  
five hundred seventy and  
three hundred twenty-two  
thousandths

$$\begin{array}{r} 136.99 \\ 537.64 \\ 82.3 \\ + 115.73 \\ \hline \end{array}$$

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

$$282.13 \underline{\quad} 279$$
$$173.69 \underline{\quad} 168$$
$$8.9 \underline{\quad} 8.900$$
$$17.81 \underline{\quad} 17.7$$
$$327 \underline{\quad} 330.1$$
$$13.44 \underline{\quad} 13.5$$
$$416 \underline{\quad} 417.4$$

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

<p>The monthly premiums for Mr. Martin's life insurance are \$18.78. At that rate, what is the yearly cost for Mr. Martin's life insurance?</p>	<p>Mrs. Brown is making fruitcakes at the bakery. Her recipe calls for <math>\frac{1}{2}</math> of a cup of molasses and makes 5 fruitcakes. How much molasses will she need to make 20 fruitcakes?</p>
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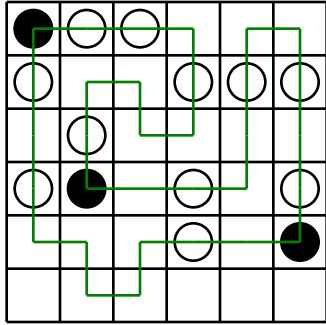
$7,617 - 4,485 = \underline{\hspace{2cm}}$	$2 \times 12 = \underline{\hspace{2cm}}$	$\begin{array}{r} 99 \\ - 83 \\ \hline \end{array}$
--	--	---

<p>How many yards are in 27 feet?</p> <p><u>        </u> yards</p>	$60 \div 6 = \underline{\hspace{2cm}}$
--	--

$\begin{array}{r} 922 \\ - 236 \\ \hline \end{array}$	$30 \div 3 = \underline{\hspace{2cm}}$	$24 \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$	$66 \div 11 = \underline{\hspace{2cm}}$
	$6 \div 3 = \underline{\hspace{2cm}}$		

<p>What number is halfway between 11 and 18?</p>	$30 \div 10 = \underline{\hspace{2cm}}$	$1 \text{ kg} = 1,000 \text{ g}$ $9 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$
--	---	---

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

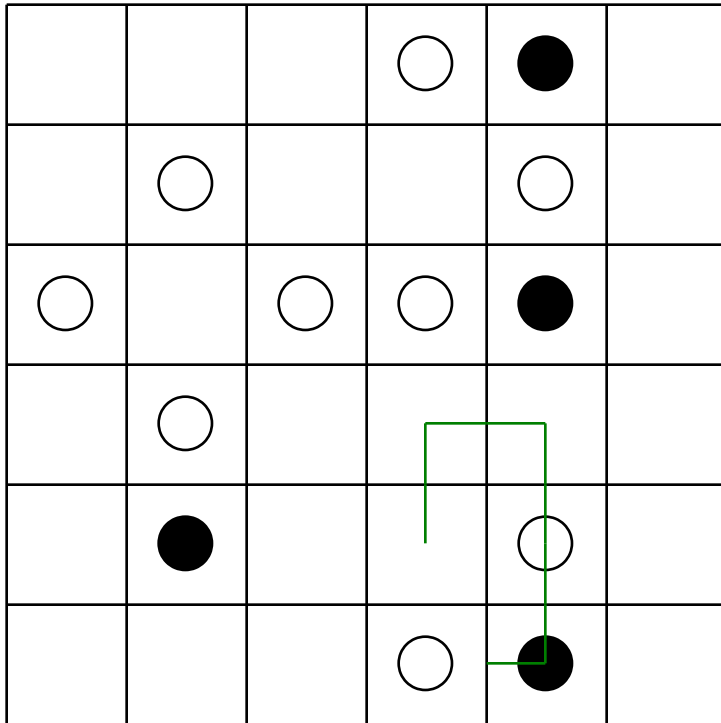


Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn.

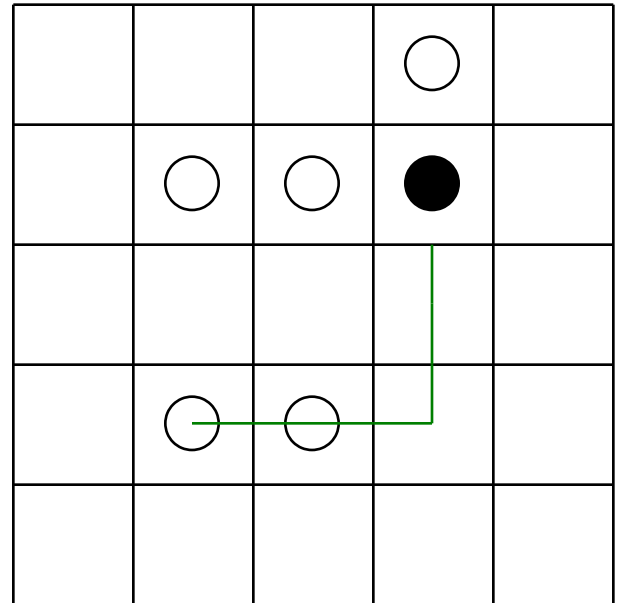
You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

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

Finish the line:



Finish the line:



For 925,055,671,746, write the digit that is in the ten thousands place.

\_\_\_\_\_

$(4 + 9) + 3 =$

$9 \times 10 =$  \_\_\_\_\_

Write 8,215,460 in words.

\_\_\_\_\_

$7 \times 6 =$  \_\_\_\_\_

$6 \times 5 =$  \_\_\_\_\_

$2,951 + 3,765 =$  \_\_\_\_\_

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

### Sudoku Sums of 15

Each row, column, and box must have the numbers 1 through 9.  
Hint: Look for sudoku sums. The sum of the two boxes inside of the dashed lines is 15.

Here is an example of a sudoku sum of 15:

1	14
---	----

					4	8		9
			5	1	7			
1	4					3		
	1	7	4					
6	8	3		2		4		
								6
				5	2		8	
		1			3	7	9	
4					9		6	3

$96,563 - 14,597 =$  \_\_\_\_\_

What time is 17 hours after  
2:00 p.m.?

\_\_\_\_\_

$8 \times 11 =$  \_\_\_\_\_

$66 \div 6 =$  \_\_\_\_\_

word root **cham** can mean **vault**

**chamber, chambermaid**



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

9 • x • 7 • = • 6 • 3 • 1 • 3 • 2 • x • 5 • 4 • 4 • 1 • 6 • 6  
= • = • 8 • 0

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

The puzzle grid contains the following equations:

- Horizontal:  $9 \times 7 = 63$ ,  $3132 \times 544 = 1666$ ,  $6 \div 9 = 7$ ,  $7 \times 7 = 49$ ,  $9 \times 8 = 72$ ,  $83 \div 6 = 8$ ,  $5 \times 2 = 10$ ,  $0 \times 8 = 0$
- Vertical:  $2 \div 1 = 2$ ,  $3 \times 1 = 3$ ,  $83 \div 6 = 8$ ,  $9 \times 8 = 72$ ,  $83 \div 6 = 8$ ,  $7 \div 7 = 1$ ,  $4 \times 1 = 4$ ,  $5 \times 2 = 10$ ,  $0 \times 8 = 0$
- Diagonal:  $2 \div 1 = 2$ ,  $3 \times 1 = 3$ ,  $83 \div 6 = 8$ ,  $9 \times 8 = 72$ ,  $83 \div 6 = 8$ ,  $7 \div 7 = 1$ ,  $4 \times 1 = 4$ ,  $5 \times 2 = 10$ ,  $0 \times 8 = 0$

Write the missing family fact.

$111 - 50 = 61$   
 $111 - 61 = 50$   
 $61 + 50 = 111$

\_\_\_\_\_

Fill in the missing operations to complete this equation:

$10 \text{ \_\_\_\_ } 20 \text{ \_\_\_\_ } 27 = 227$

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

Four students (Stephanie, Megan, Sierra, and Justin) at a school have each been assigned a different id number (84,092, 41,074,829, 15,936, and 953). Each of the students is in a different grade (fourth, ninth, sixth, and first).

Figure out the id number and grade level for each student.

1. The student in the fourth grade has an ID number equal to  $4,000 + 80,000 + 90 + 2$ .
2. Sierra's number is one thousand more than eighty-three thousand, ninety-two.
3. The ones digit in Stephanie's ID number is three more than the tens digit.
4. The hundreds digit in 629,992 is eight more than the grade that Megan is in.
5. The student in the sixth grade does not have a nine in the tens digit.
6. The tens digit in 97,581 is one less than the grade that Justin is in.
7. The largest place value in Justin's ID number is the hundred millions digit.

Stephanie has an ID number of \_\_\_\_\_ and is in the \_\_\_\_\_ grade.

Megan has an ID number of \_\_\_\_\_ and is in the \_\_\_\_\_ grade.

Sierra has an ID number of \_\_\_\_\_ and is in the \_\_\_\_\_ grade.

Justin has an ID number of \_\_\_\_\_ and is in the \_\_\_\_\_ grade.

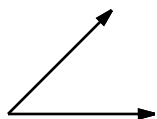
Can 215 be evenly divided by 5? Circle:

215 is evenly divisible by 5

215 is NOT evenly divisible by 5

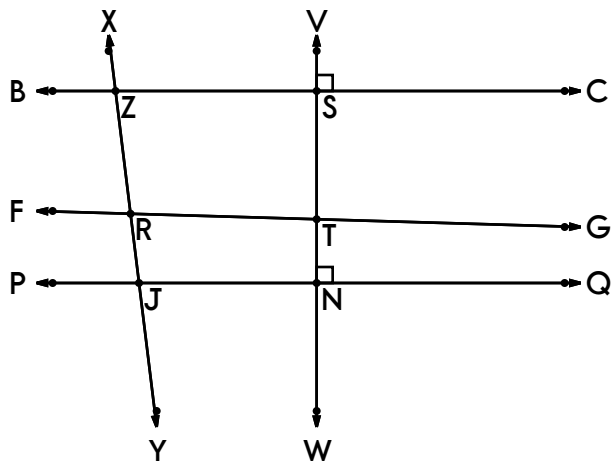
Which is the better buy? Two bags of candy for \$12 or eight bags of candy for \$32?

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



What kind of angle is this?

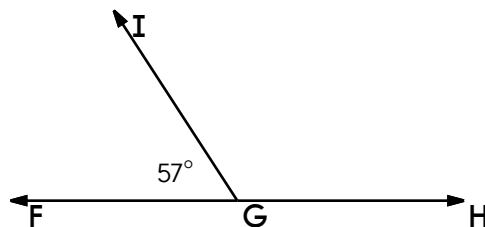
Sketch 2 lines  $\overleftrightarrow{KL}$  and  $\overleftrightarrow{WX}$  that are intersecting.



Name 2 lines which include point S.

Name 3 angles.

Name 3 rays.



What kind of angle is  $\angle FGI$ ?

What kind of angle has a measure of between  $0^\circ$  and  $90^\circ$ ?

Sketch a right angle named  $\angle EGH$ .



Sketch an obtuse angle named  $\angle DEF$ .

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



$2 \times \underline{\quad} = 18$

$12 \times \underline{\quad} = 108$

$\underline{\quad} \times 6 = 60$

$\underline{\quad} \times 3 = 21$

$10 \times \underline{\quad} = 40$

$\underline{\quad} \times 3 = 33$

$5 \times \underline{\quad} = 45$

$\underline{\quad} \times 12 = 72$

$9 \times \underline{\quad} = 18$

$\underline{\quad} \times 6 = 12$

$\underline{\quad} \times 2 = 10$

$4 \times \underline{\quad} = 48$



$14 \times 4 =$

$14 \times 3 =$

$73 \times 3 =$

$94 \times 3 =$

$61 \times 7 =$

$27 \times 2 =$

$16 \times 6 =$

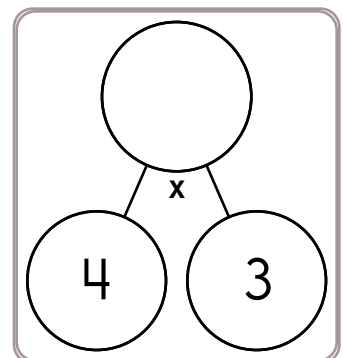
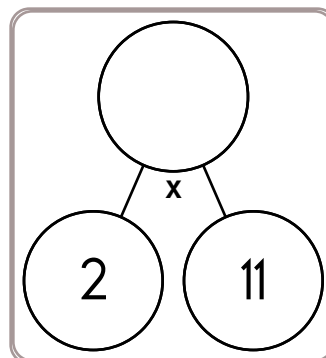
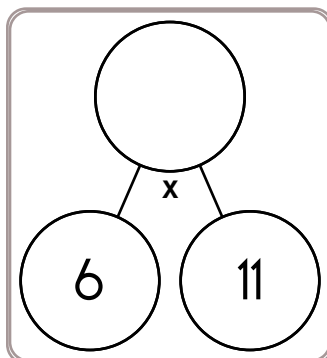
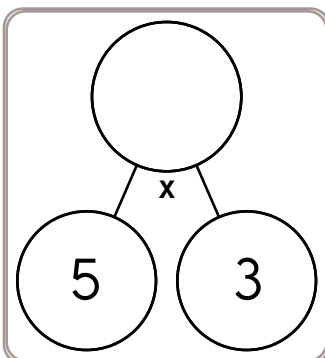
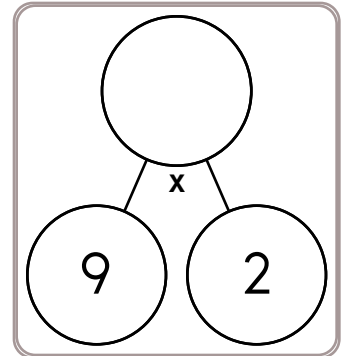
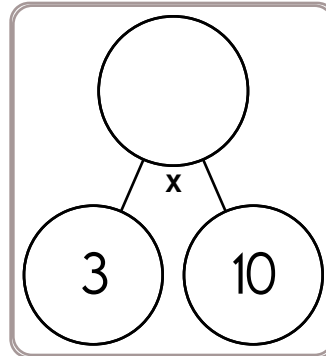
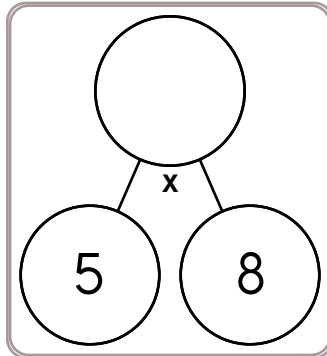
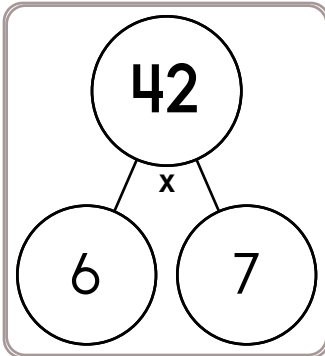
$17 \times 3 =$

$30 \times 6 =$

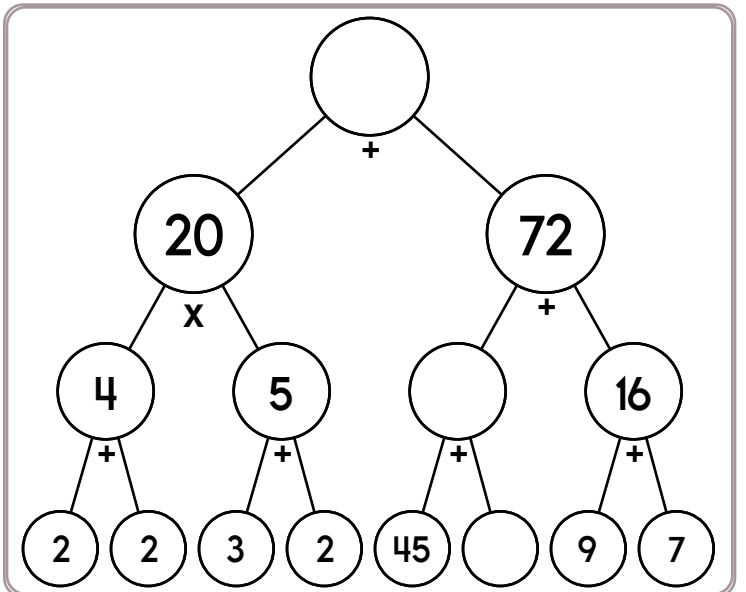
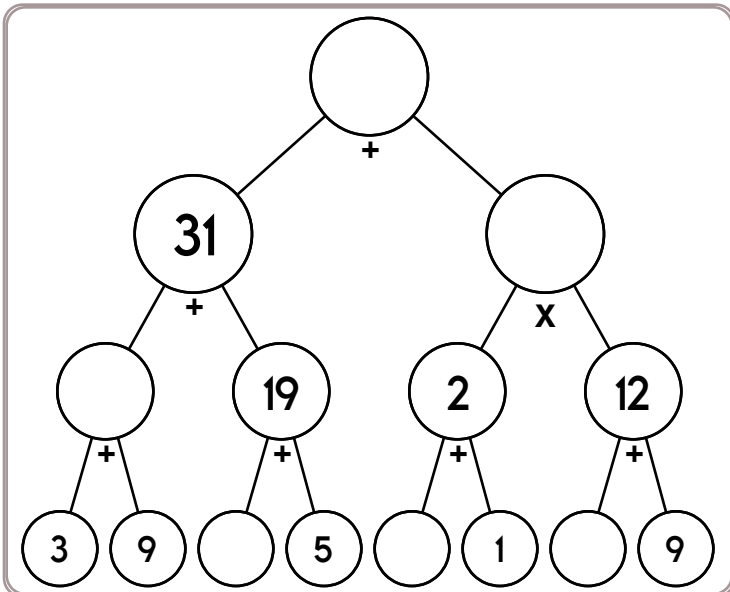
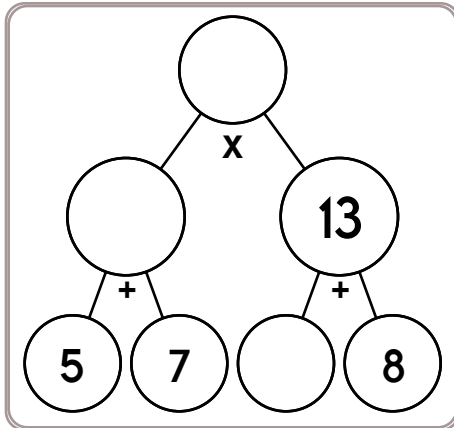
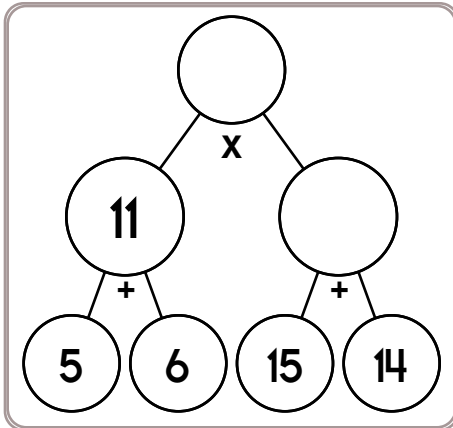
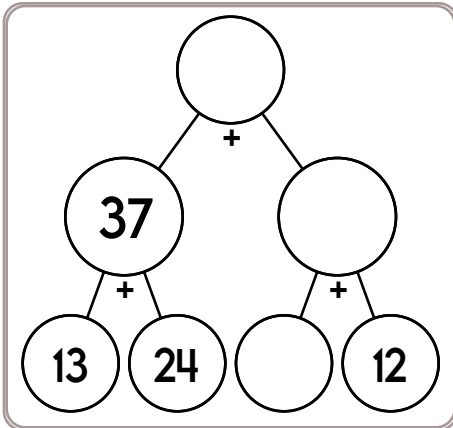
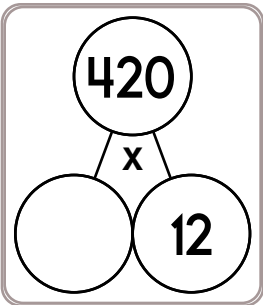
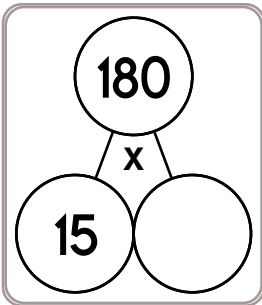
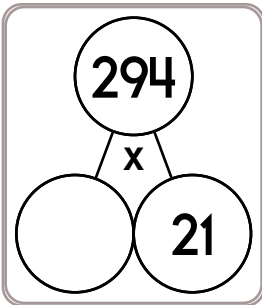
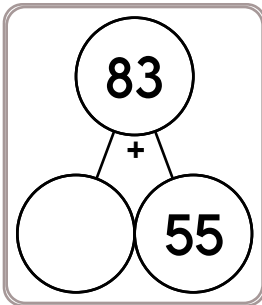
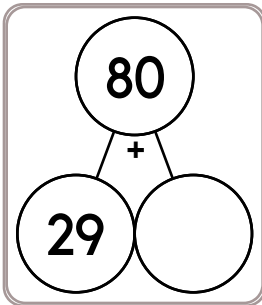
$24 \times 3 =$

$72 \times 6 =$

$93 \times 2 =$



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



$t - 11 + 6 = 23$   
What is the value of  $t$ ?

Simplify.  
 $\frac{6,300}{16,800} =$

$\frac{5}{12} \div \frac{13}{36} =$

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

A book scanner can scan 105 words in 5 minutes. How many words does the book scanner scan per minute?

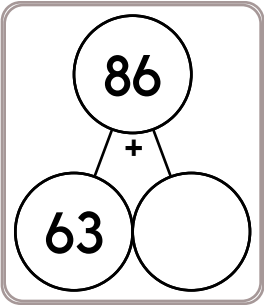
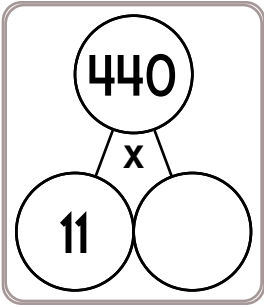
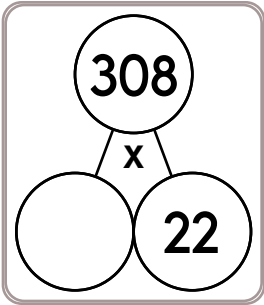
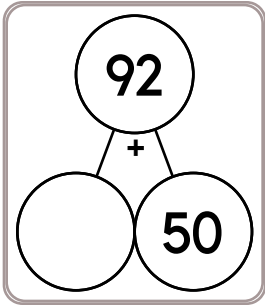
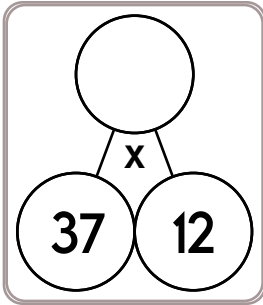
At the amusement park near the exit for the Splasher ride, they offer a dryer for people to walk in and get completely dry in only four minutes. There are three dryers. Three people just walked into the three dryers and started the machine. Seventeen other people are waiting outside the dryers. How long will the last person in the line need to wait?

Anne has a new pool in her backyard! It took 9 months to build, but it is finally finished. The only problem is that it has no water. The pool can hold 10,000 gallons of water. She hooked up a garden hose with a flow rate of 20 gallons per minute. At that rate, how long will it take to fill the pool?

Jenna is playing the Zeepers app where she needs to fly her spaceship to different planets. Her spaceship uses Zinko fuel and can travel 560,000 miles on 5 cups of Zinko. If her spaceship currently has 13 cups of Zinko, what is the maximum distance it can fly before running out of fuel?



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



$$\begin{array}{r} 4.1 \\ - 2.81 \\ \hline \end{array}$$

$$0.18 + 4.7 + 0.7 =$$

$$0.42 + 1.9 =$$

$$|-10| - p = 7$$

$p =$

$$4, 48, 53, 636, 641,$$

\_\_\_\_\_, \_\_\_, \_\_\_\_

Circle the percentage that is closest to 30 out of 60:

86%  
86%  
15%  
56%

$$0.6 (0.4 (0.6 + 2)) =$$

$$10g - 23.3 = 29.7$$

$g =$

What is the remainder of 77 divided by 8?

What is the greatest common factor of the numbers 84 and 24?

$$|-55| - [28] =$$

If  $s = 6$  and  $h = -52$  then what is the value of  $j$ ?

$$4s + 15h - 4h = j$$



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

Mary and Erin left their house at 10:43 a.m. to go to the beach. They returned home tired and sunburned at 3:03 p.m. How long had they been away?












The initial population of protists in a culture is 4,693. The final population after one week was 7,143. The population increased by what percent over the week? Round your answer to the nearest hundredth of a percent.

Anna wanted to make lasagna. She had a recipe that made enough for 5 people. The recipe used 8 lasagna noodles. If Anna wants to make lasagna for 15 people, how many noodles will she need?

At the Megalopolis Zoo they make a special feed to provide to their exotic birds. It is (by mass)  $\frac{1}{3}$  super meal,  $\frac{1}{4}$  commercial birdseed, and one-eighth cracked corn. The rest is made up of Nutro Feedofill. How much commercial birdseed is required to make 125 kilograms of the special feed? If the answer is not a whole number, express your answer as a fraction.

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

Draw ONE continuous line that touches every box ONCE.  
Count by 8.1s. Find the box with the number 4. Move up, down, right, or left.  
Keep counting until you reach 473.8. Do not move into a spot with a ghost.

		4	12.1			
	---	---	---			
		---				---
		206.5			133.6	---
---		---			---	
---						433.3
---		328		---		
---			---		473.8	
---	---	---	---	---	---	
271.3			---	368.5	---	---

$3 \times 9 =$  \_\_\_\_\_

$3 \times 10 =$  \_\_\_\_\_

$11 \times 9 =$  \_\_\_\_\_

Sarah is giving out candy, but you need to guess her favorite number if you want some. Her favorite number has three digits. One digit in her number is three. The tens digit is 4 more than the units digit. The three digits add up to eleven. The units digit is 2 more than the hundreds digit.

Are you going to get candy?

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

		x		-		=	
	?	B	C				16
+	A	A	C				119
+	B	A	A				88
=							
	22	31	15				

**Equations and Hints:**

Each letter is a whole number.

Fill in the equations using the chart:

$$C + C + A = 15 \quad \_ \times A - A = 88 \quad \_ + \_ + \_ = 31$$

$$\_ \times \_ - \_ = 119$$

Additional hints:

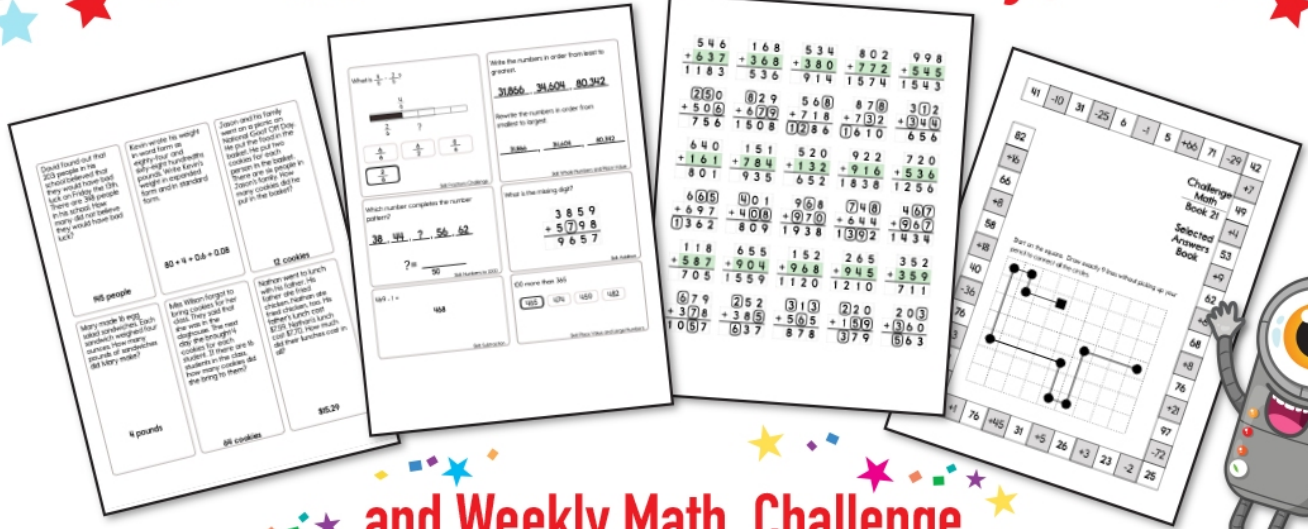
$$B = C + 7 \quad B > 3$$

**Show Work:**

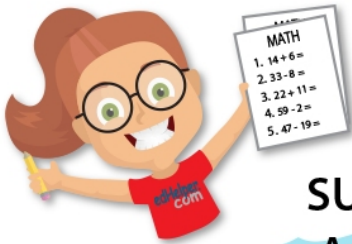
**Solve:**

$$? = \_$$

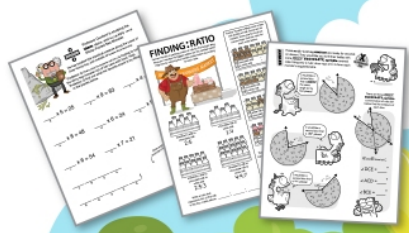
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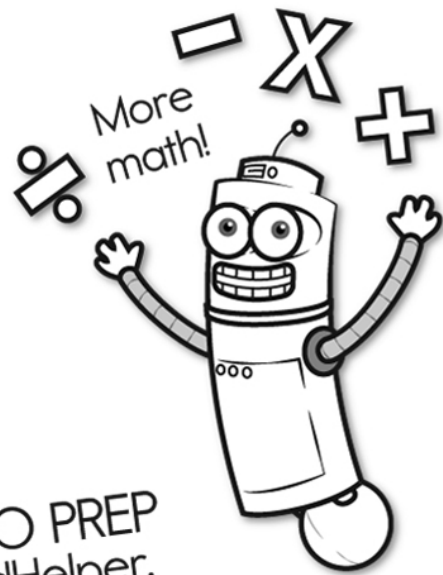
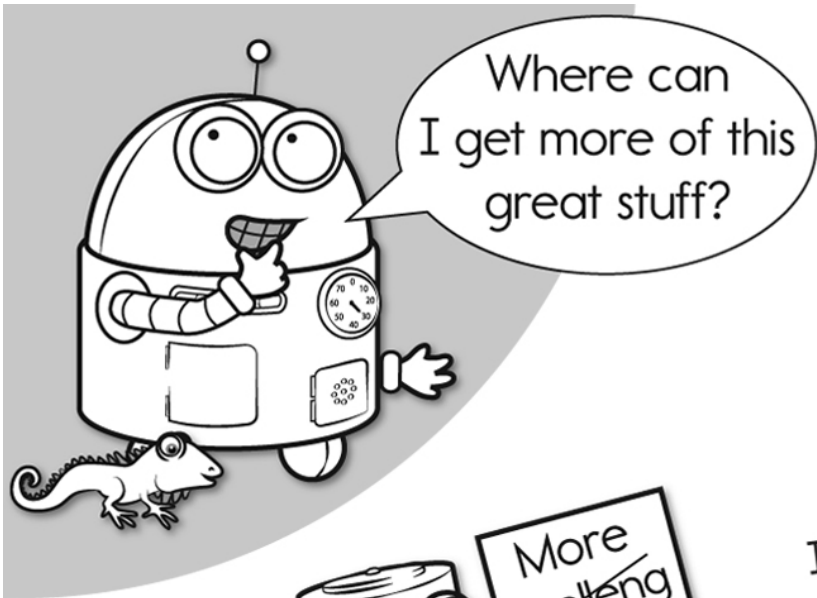
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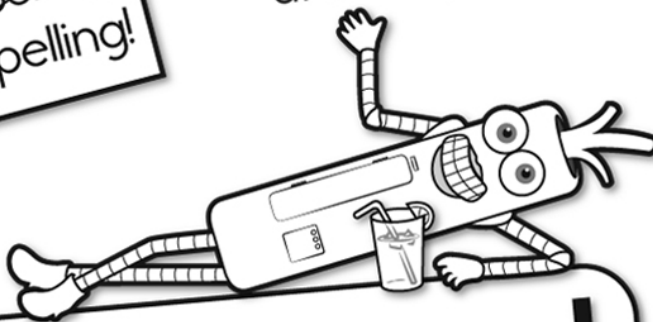


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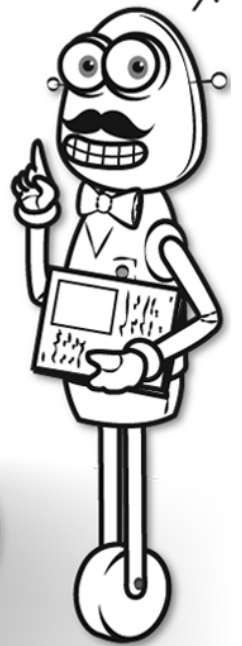


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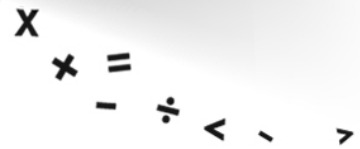
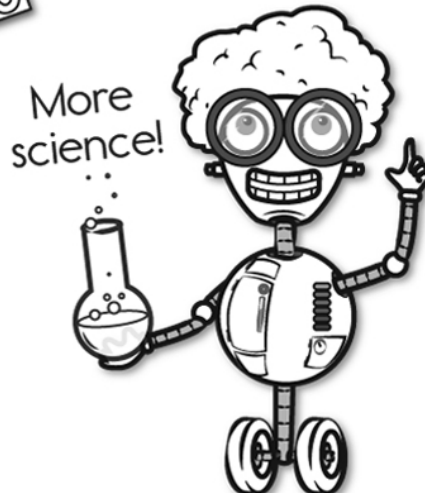
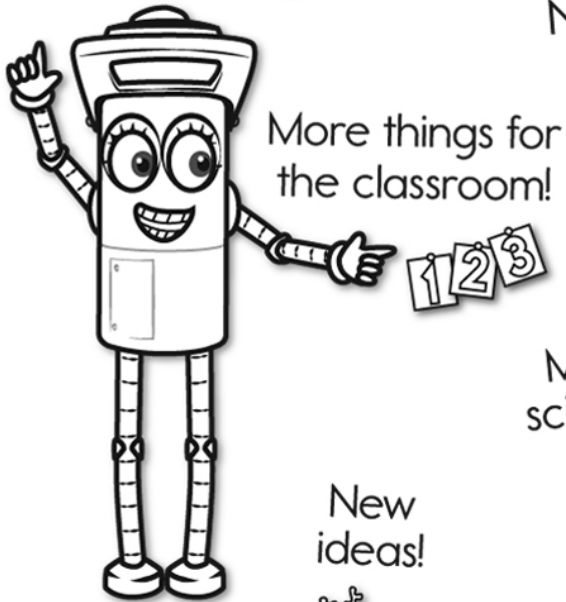
More history!



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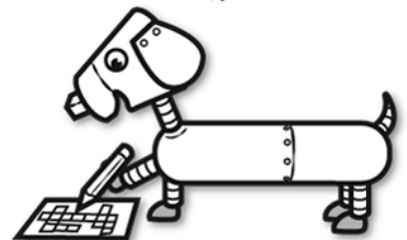


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