

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

Complete each pattern. Write what the rule is.

4.3	8.6	12.9
17.2		25.8
30.1	34.4	

Complete each pattern. Write what the rule is.

$$14 \frac{1}{5}, 14 \frac{2}{5}, 14 \frac{13}{20}, 14 \frac{17}{20}, 15 \frac{1}{10}, 15 \frac{3}{10}, 15 \frac{11}{20},$$

$$15 \frac{3}{4}, 16, \underline{\hspace{2cm}}, 16 \frac{9}{20}, 16 \frac{13}{20}, 16 \frac{9}{10}, 17 \frac{1}{10}$$

$$15 \frac{2}{5}, 15 \frac{13}{20}, 15 \frac{17}{20}, 16 \frac{1}{10}, 16 \frac{3}{10}, 16 \frac{11}{20},$$

$$\underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, \underline{\hspace{2cm}}, 17 \frac{13}{20}, 17 \frac{9}{10}$$

Add  $\frac{1}{5}$ , then add  $\frac{1}{4}$

; Repeat.

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What is the least common multiple for each of the number sets?

The least common multiple of 11 and 18 is \_\_\_\_\_

The least common multiple of 8 and 9 is \_\_\_\_\_

The least common multiple of 12 and 17 is \_\_\_\_\_

The least common multiple of 6 and 15 is \_\_\_\_\_

The least common multiple of 4 and 10 is \_\_\_\_\_

Write as a decimal.

$$\frac{4}{100}$$

Write as a decimal.

$$16 \frac{8}{100}$$

Write as a decimal.

$$16 \frac{19}{1000}$$

Pick the family fact that is missing.

$$9 \times 17 = 153$$

$$153 \div 17 = 9$$

$$153 \div 9 = 17$$

Write  $\frac{4}{16}$  in lowest terms.

$$8 \div \frac{1}{5}$$

$$55 \div 5 =$$

$$19 \text{ cm} = \text{_____ mm}$$

$$96 \div 12 = \text{_____}$$

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Jen is really into science. She invented a robotic bug that burps. Her brother loved it, so she wanted to send the robot to her brother. She checked her phone, and her brother is currently 1.6 miles away. After she set the coordinates on the phone, the robotic bug left. She got a burp confirmation 113.6 seconds later when it reached her brother. How fast did this robotic bug travel in miles per hour? Round your answer to the nearest mile. Hint: Convert time to hours. Then divide the miles by the time in hours.

What 5 coins add up to 56 cents?

Know how many inches in a foot? Okay, smarty pants, how many inches in 7 feet?

How much time is it from 7:00 a.m. to 10:20 a.m.?

$$6 - 24 \div 8$$

What is the area of a rectangle with sides 4 cm and 9 cm?

What is 50% of 1,704?

April rolls a die. What is the chance of her rolling a 1?

\_\_\_\_\_

How many kilograms are in 8,000 grams?

\_\_\_\_\_ kilograms

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$2 \times 10 = \underline{\hspace{2cm}}$	$\begin{array}{r} 24 \\ + 30 \\ \hline \end{array}$	<p>Holly and her little sister, Erin, both have birthdays on the same day. Holly is nine years old. Erin is seven years old. Did you know that Holly was once double the age of Erin? How many years ago was that?</p>
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<p>Write the missing family fact.</p> <p><math>97 - 23 = 74</math>  <math>23 + 74 = 97</math>  <math>74 + 23 = 97</math></p> <p>_____</p>	<p>1 lb = 16 oz</p> <p>9 lb = _____ oz</p>
---	--

$\begin{array}{r} 43 \\ - 16 \\ \hline \end{array}$	$614 - 123 = \underline{\hspace{2cm}}$	$\begin{array}{r} 600 \\ - 341 \\ \hline \end{array}$
---	--	---

$\begin{array}{r} 296 \\ + 204 \\ \hline \end{array}$	<p>In the number 6,552,533, the digit 6 is in what place?</p> <p>_____</p>	$32 \div 4 = \underline{\hspace{2cm}}$
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<p>Jessica and Amanda are playing a number game. Jessica says 8. Amanda replies that the answer is 72. Jessica says 3. Amanda replies that the answer is 27. Jessica says 6. Amanda replies that the answer is 54. Jessica says 13. Amanda replies that the answer is 117. Jessica says 5. Amanda is thinking. What number should Amanda reply with?</p>	<p>31% of 100 is 31.          31% of 200 is 62.          31% of 500 is 155.</p> <p>What is 31% of 800?</p>
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$$7 \cdot 9 \cdot 5 \cdot + \cdot 2 \cdot 5 \cdot 4 \cdot = \cdot 6 \cdot + \cdot 1 \cdot 3 \cdot 8 \cdot 1 \cdot 1 \cdot 9$$

$$= \cdot - \cdot 3 \cdot 3$$

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

6		3		÷	=								
x		8		=		4		0					
7							+						
+				+		=		1	1				
÷							+						
9	4		=				3						
=		x				=							
8	0				0		4		÷	4	=		
2		-		0		=		5					
6		x		5		=				0			

$$8,142 - 1,898 = \underline{\hspace{2cm}}$$

Circle the smallest number:  
 30,526,981,474      7,910,684,253  
 750,916,432,814      15,780,623

$$5,466 - 3,745 = \underline{\hspace{2cm}}$$

$$5 \times 6 = \underline{\hspace{2cm}}$$

$$9 \times 2 = \underline{\hspace{2cm}}$$

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

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Circle the greatest number: 293,860,147,567 4,385,902 90,681,723,548 594,713	$45,246 + 23,664 =$ _____
	$21,338 + 41,314 =$ _____
	_____

You have four digits to use in an addition problem: 5, 6, 4, and 8. Make up a problem where you have two 2-digit numbers. What is the largest sum you can make?	$70 \div 7 =$ _____	$30 \div 5 =$ _____
	_____	$49 \div 7 =$ _____
	_____	$9 \times 12 =$ _____

$72 \div 6 =$ _____	The letters F, G, J, L, N, P, Q, R, S, and Z do not have line symmetry. The rest of the letters in the alphabet do. Can you write someone's name where the complete name has line symmetry? Hint: You cannot use all of the letters. You could use B in a name, but M would not work.	Amanda cannot open her locker. She knows that the three numbers are: 32, 11, and 18, but she cannot remember the order of the numbers. How many different combinations are there? List ten of them.
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$3 \times 11 =$ _____	What time is 16 hours after 1:00 a.m.? _____
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= • 1 • 1 • + • 5 • + • 0 • = • 6 • = • 6 • 2 • 1 • 0 • 0 • 4  
7 • 9 • 6 • 5

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

		4		x	7			2	8		
										-	
		3						+	6	=	7
		x			9			x			=
									4		
					1			=			-
2					3			=			
0											
÷					2						
5	+	1	=	6	+						
=											
					0	+	7	=			
						3					
	x	7	=			3					

$6 \times 10 =$  \_\_\_\_\_

$11 \times 10 =$  \_\_\_\_\_

Fill in the missing operations to complete this equation:  
 $36 \text{ \_\_\_\_ } 18 \text{ \_\_\_\_ } 27 = 29$

$22 \div 2 =$  \_\_\_\_\_

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$$8 \overline{) 2.34328}$$

$$7 \overline{) 9.59}$$

$$5 \overline{) 1.4675}$$

What is the greatest common factor of the numbers 84 and 36?

Circle the percentage that is closest to 22 out of 51:

- 14%
- 90%
- 67%
- 42%

$$3.4393 \times 10^2 =$$

Find the least common denominator for the fractions  $\frac{6}{9}$  and  $\frac{8}{21}$ .

$$|-6| - g = 10$$

$$g =$$

Rewrite as an algebraic expression or equation.

Six more than d tripled is thirty-nine.

$$50 \div 5 \times 6$$

Simplify.

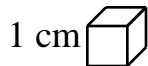
$$\frac{14}{16} =$$

$$3 \times 3 \times 3 \times 3 = x^4$$

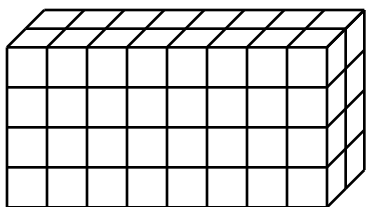
What is the value of x?



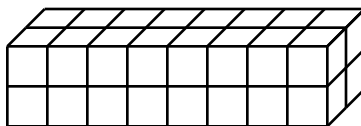
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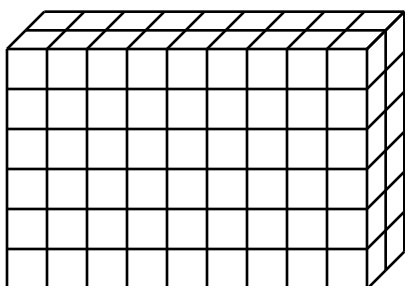
Calculate the volume of each shape that was made from cube blocks. The volume of one block is 1 cubic centimeter.



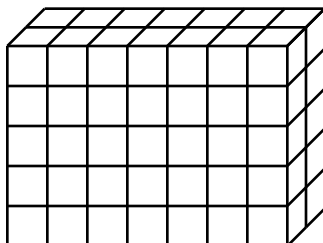
64 cm<sup>3</sup> \_\_\_\_\_



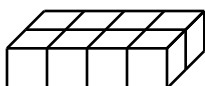
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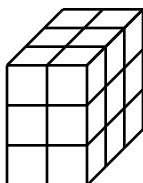
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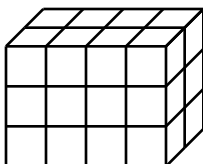
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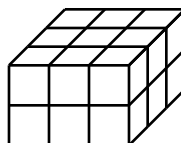
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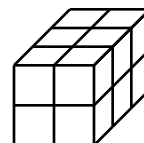
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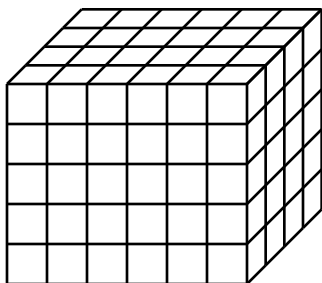
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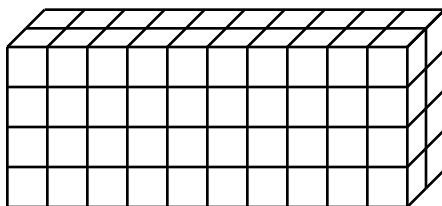
\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

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

Write each number as a product of its prime factors.

70 \_\_\_\_\_  $2 \times 5 \times 7$

56 \_\_\_\_\_

48 \_\_\_\_\_

72 \_\_\_\_\_

81 \_\_\_\_\_

Write the greatest common factor for each pair of numbers.

60 and 45

16 and 36

24 and 40

Find the value of each expression.

$3^1$

$3^2$

$3^2 + 9$

$3^3$

$3^2 \times 3$

$3^2 \times 3^2$

If you are given that  $29^2 = 841$ , then show how you would find the square of 290.

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Use any of these digits. Cross off a digit after you use it.

8

3

9

0

2

Write the smallest 2-digit number that you can come up with that is divisible by 2.

One side of a rectangle is 6 centimeters longer than the other side. The perimeter is 40 centimeters. How long is the longest side?

Write the ratio as a fraction.  
4 quarters to 7 nickels

Find 24% of 9.

Change to a percent.

$$\frac{5}{10}$$

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$45 + 40 =$

$894 - 2339 =$

Find the difference  
between 682 and 59.

$$\begin{array}{r} 79 \\ + 57 \\ \hline \end{array}$$

What number is 177 less  
than 305?

$$\begin{array}{r} 16,509 \\ - 3,352 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \times 17 \\ \hline \end{array}$$

Find the product of 44 and  
9.

$$\begin{array}{r} 917 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 3,137 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \\ \times 15 \\ \hline \end{array}$$

$$\begin{array}{r} 2,889 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 0.3 \\ - 0.2 \\ \hline \end{array}$$

$0.24 + 5.2 =$

$$\begin{array}{r} 0.51 \\ - 0.466 \\ \hline \end{array}$$

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

Mental Math

— #1 —

☺ Start with the number 538.

538



☺ Round to the nearest hundred.

7 5 5 1 5 0 0 7 8 0 (Circle your answer to double check you are correct.) \_\_\_\_\_

☺ Add two-thirds of a dozen.

5 0 8 0 3 9 5 7 6 3 \_\_\_\_\_

☺ Subtract 11.

1 7 5 6 8 4 9 7 7 9 \_\_\_\_\_

☺ Add the number of nickels in a dollar.

1 5 1 7 5 0 9 4 8 1 \_\_\_\_\_

☺ Add the number of ounces in 2 pounds.

2 4 5 0 3 7 5 4 9 2 \_\_\_\_\_

Mental Math

— #2 —

◆ Start with the number 8.

5 6 2 8 1 7 8 9 4 1 (Circle your answer to double check you are correct.) \_\_\_\_\_

◆ Add the number of pennies in a dollar.

6 4 1 0 8 7 2 6 8 5 \_\_\_\_\_

◆ Add one-third of a dozen.

7 1 1 2 6 0 3 6 8 7 \_\_\_\_\_

◆ Subtract 27.

1 4 8 1 8 5 7 1 3 7 \_\_\_\_\_

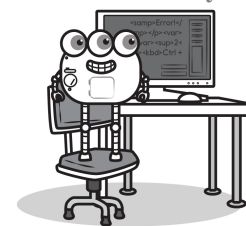
◆ Find four-fifths.

9 1 6 8 6 0 8 2 5 1 \_\_\_\_\_

◆ Add a half dozen.

7 4 6 2 5 3 2 1 1 8 \_\_\_\_\_





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Robot was given a math problem to solve.

Sara has \$15 to spend. She spends  $\frac{3}{4}$  of a dollar on some batteries and  $5\frac{2}{5}$  dollars on a flashlight. How much money does she have left over?

Robot wrote this program in Python to solve it.

```
# initial money Sara has
sara_money = 15

# money spent on batteries
batteries_cost = 3/4

# money spent on a flashlight
flashlight_cost = 5 + 2/5

# calculate leftover money
money_left = sara_money - batteries_cost - flashlight_cost

print(money_left)
```

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

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

\_\_\_\_\_ . \_\_\_\_\_



### Quick Hints

For / you divide the two numbers.

### Hint

To divide in Python / is used.

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

$$\begin{array}{r} 0.35 \\ +0.37 \\ \hline \end{array}$$

$$\begin{array}{r} 0.18 \\ -0.3 \\ \hline \end{array}$$

$$\begin{array}{r} 0.29 \\ +0.37 \\ \hline \end{array}$$

$$\begin{array}{r} 0.93 \\ +0.4 \\ \hline \end{array}$$

$$\begin{array}{r} 0.46 \\ -0.15 \\ \hline \end{array}$$

$$\begin{array}{r} 0.19 \\ -0.16 \\ \hline \end{array}$$

$$\begin{array}{r} 15.98 \\ -15.8 \\ \hline \end{array}$$

$$\begin{array}{r} 21.34 \\ +19.7 \\ \hline \end{array}$$

$$\begin{array}{r} 20.31 \\ -19.67 \\ \hline \end{array}$$

$$\begin{array}{r} 12.64 \\ -10.36 \\ \hline \end{array}$$

$$\begin{array}{r} 3.98 \\ +11.52 \\ \hline \end{array}$$

$$\begin{array}{r} 23.04 \\ +31.22 \\ \hline \end{array}$$

$$\begin{array}{r} 6.56 \\ +15.67 \\ \hline \end{array}$$

$$\begin{array}{r} 19.56 \\ -12.3 \\ \hline \end{array}$$

$$\begin{array}{r} 5.47 \\ +5.08 \\ \hline \end{array}$$

$$\begin{array}{r} 14.12 \\ +11.5 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ -11.96 \\ \hline \end{array}$$

$$\begin{array}{r} 27.96 \\ -19.66 \\ \hline \end{array}$$

$13.17 + 13.28 = \underline{\hspace{2cm}}$

$18.34 - 13.43 = \underline{\hspace{2cm}}$

$10.85 + 13.72 = \underline{\hspace{2cm}}$

$7.8 - 3.71 = \underline{\hspace{2cm}}$

$14.28 + 7.99 = \underline{\hspace{2cm}}$

$25.56 - 21.8 = \underline{\hspace{2cm}}$

$21.48 + 15.48 = \underline{\hspace{2cm}}$

$37.58 - 30.6 = \underline{\hspace{2cm}}$

$12.82 + 2.9 = \underline{\hspace{2cm}}$

$12.39 + 18.91 = \underline{\hspace{2cm}}$

$9y - 26.1 = 30.6$

$y =$

$(0.6)(0.11)$

Rewrite  $\frac{13}{20}$  as a decimal.

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



$28 \div 4 =$

$40 \div 8 =$

$63 \div 9 =$

$27 \div 9 =$

$9 \div 3 =$

$45 \div 5 =$

$54 \div 9 =$

$36 \div 4 =$

$24 \div 6 =$

$56 \div 7 =$

$45 \div 9 =$

$15 \div 5 =$



$\underline{\quad} - 43 = 399$

$\underline{\quad} - 51 = 919$

$568 - \underline{\quad} = 537$

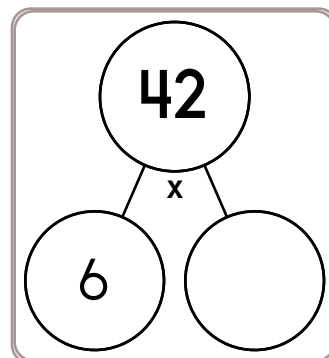
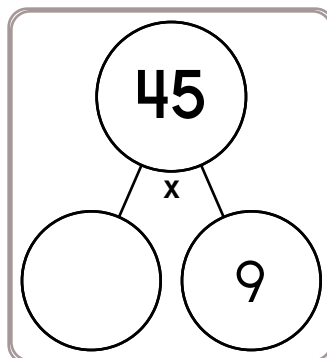
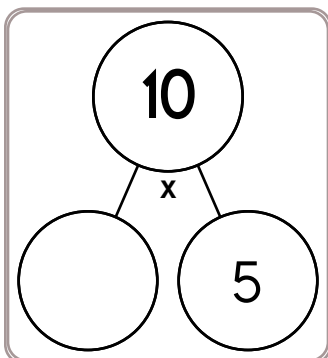
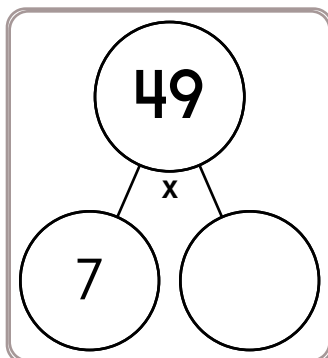
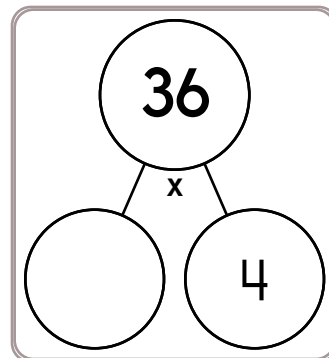
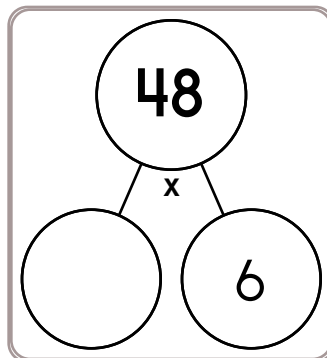
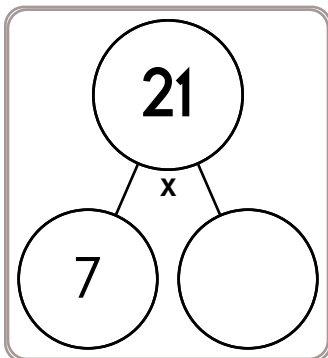
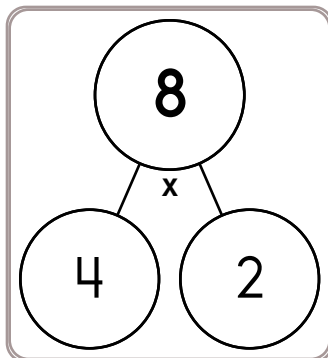
$771 - \underline{\quad} = 681$

$531 - \underline{\quad} = 515$

$\underline{\quad} - 70 = 141$

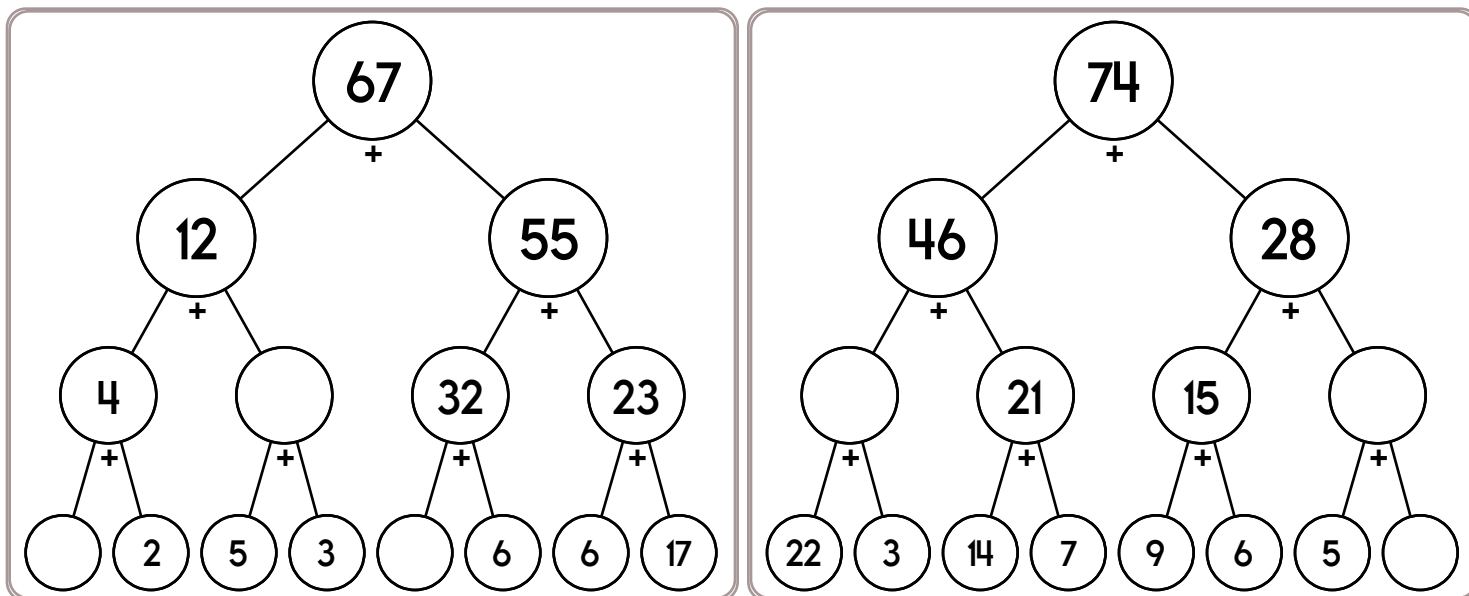
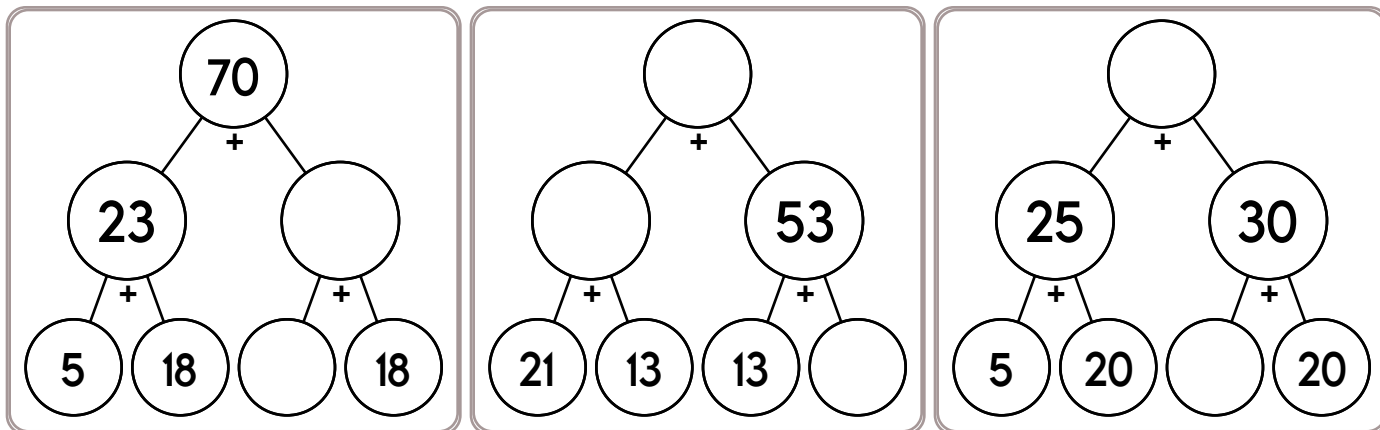
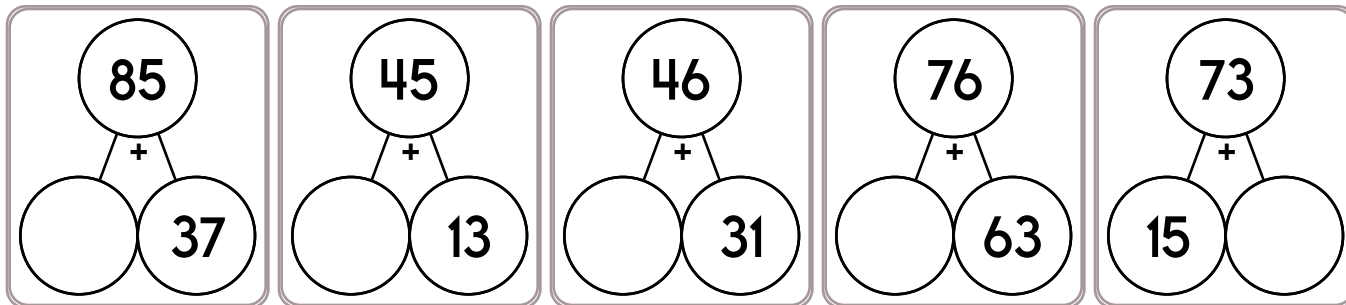
$365 - \underline{\quad} = 294$

$\underline{\quad} - 30 = 657$





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Change  $\frac{3}{4}$  to a decimal.

$$\begin{array}{r} 8.8 \\ \times 2 \\ \hline \end{array}$$

Change  $\frac{1}{2}$  to a decimal.

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

10 km = \_\_\_\_\_ m

8.4 km = \_\_\_\_\_ m

7,402 m = \_\_\_\_\_ km

13,310 m = \_\_\_\_\_ km

3,000 m = \_\_\_\_\_ km

Use the numbers 3, 7, 18, 42, 33, and 77 to write 3 equivalent ratios.

\_\_\_\_\_ : \_\_\_\_\_ =

\_\_\_\_\_ : \_\_\_\_\_ =

\_\_\_\_\_ : \_\_\_\_\_ =

51    79    14    60    26

33    42    85    98

77    30    62    55

48    23    17    81    94

What is the ratio of even numbers to odd numbers?

What is the ratio of numbers less than 42 to numbers 42 or greater?

Anna has a robot that can move  $5\frac{1}{6}$  meters per second. At this speed, how many meters can the robot move in 38 seconds?



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Get a fidget spinner! Spin it.

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

$$\frac{1}{7} \times \frac{2}{7}$$

$$3 \times 3 = x^2$$

What is the value of x?

$$2 \times 42 \div 6 - 33 \div 11 =$$

(76,886,718,750) , \_\_\_\_\_,

(341,718,750) , (22,781,250) ,

(1,518,750) , (101,250) ,

(6,750) , (450) , (30)

A circle graph has four sections. Only three sections are labeled. The labels are 24%, 34%, and 12%. What should the missing section be?

Rewrite in scientific notation.

43,040,000

$$0.0008 \times 0.5$$

$$9 + (55 \div 5) - 60 \div 6 =$$

85, 90, 95, \_\_\_\_\_, 105, 110,

115, 120, 125

$$0.8 (0.2 (0.8 \times 3)) =$$

What is the greatest common factor of the numbers 42 and 28?

What is the remainder of 37 divided by 4?

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Switzerland, Britain, Canada, and United States competed in a two-run bobsled competition. The times on the first run were two minutes and 1.10 seconds, two minutes and 0.53 seconds, two minutes and 0.60 seconds, and two minutes and 0.95 seconds.

The times on the second run were two minutes and 1.19 seconds, two minutes and 1.51 seconds, two minutes and 1.91 seconds, and two minutes and 1.31 seconds.

Figure out the time needed for each run and the combined run time for each team.

1. On the first run, the team from Britain was forty-two hundredths of a second behind the winners of the first run.
2. The bobsled team from Switzerland clocked a combined time of four minutes and 2.44 seconds.
3. The team that finished the first run in two minutes and 0.53 seconds was not the team that finished the second run in either two minutes and 1.19 seconds or two minutes and 1.51 seconds.
4. The team that finished the first run in two minutes and 0.95 seconds was not the team that finished the second run in either two minutes and 1.31 seconds or two minutes and 1.91 seconds.
5. The team from United States needed more than two minutes and 0.97 seconds to finish the first race.
6. On the second run, the team from Canada was ninety-one hundredths of a second slower than their first run.
7. The team from Britain finished the second race in less than two minutes and 1.88 seconds.
8. The team from Canada needed more than two minutes and 1.36 seconds to finish the second race.

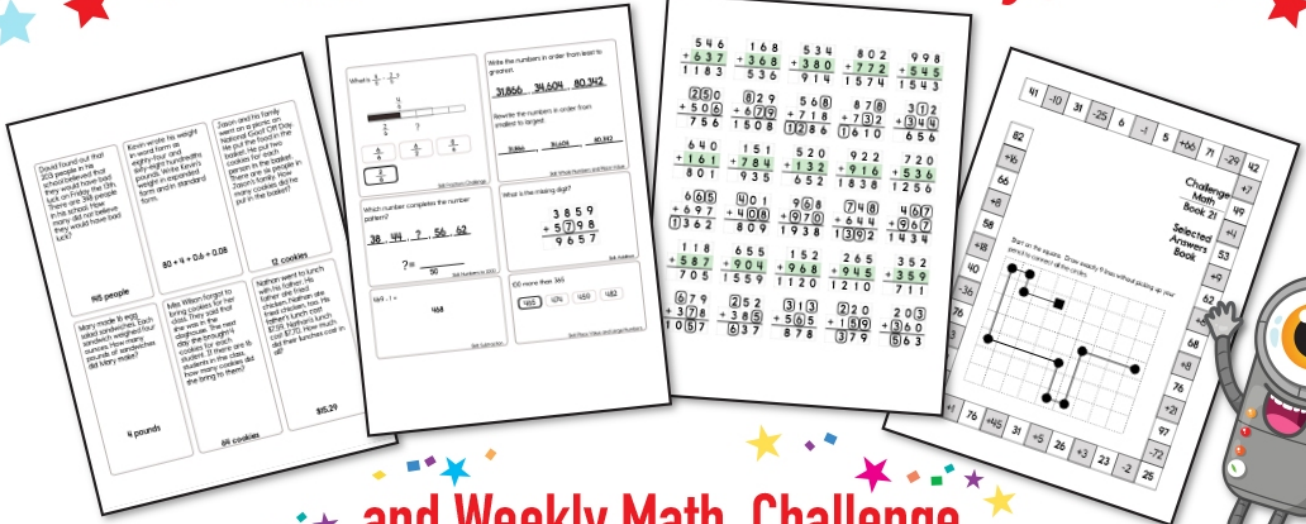
Switzerland finished the first run in \_\_\_\_\_ and the second in \_\_\_\_\_.

Britain finished the first run in \_\_\_\_\_ and the second in \_\_\_\_\_.

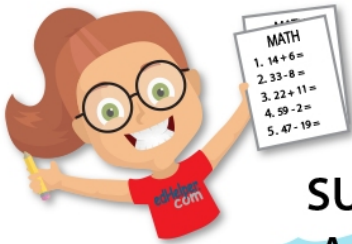
Canada finished the first run in \_\_\_\_\_ and the second in \_\_\_\_\_.

United States finished the first run in \_\_\_\_\_ and the second in \_\_\_\_\_.

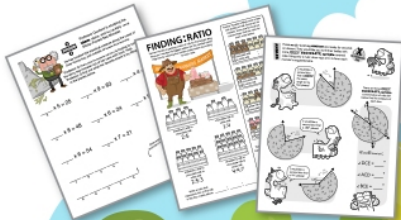
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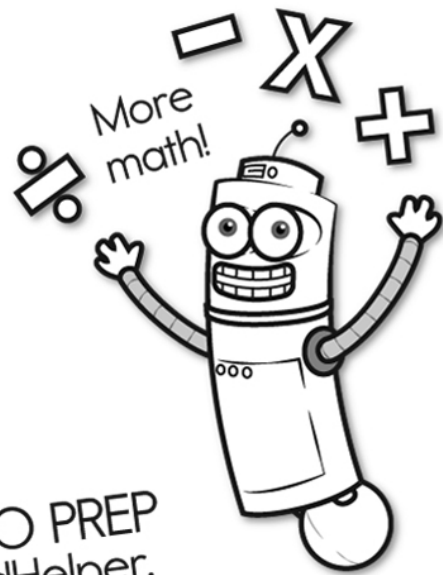
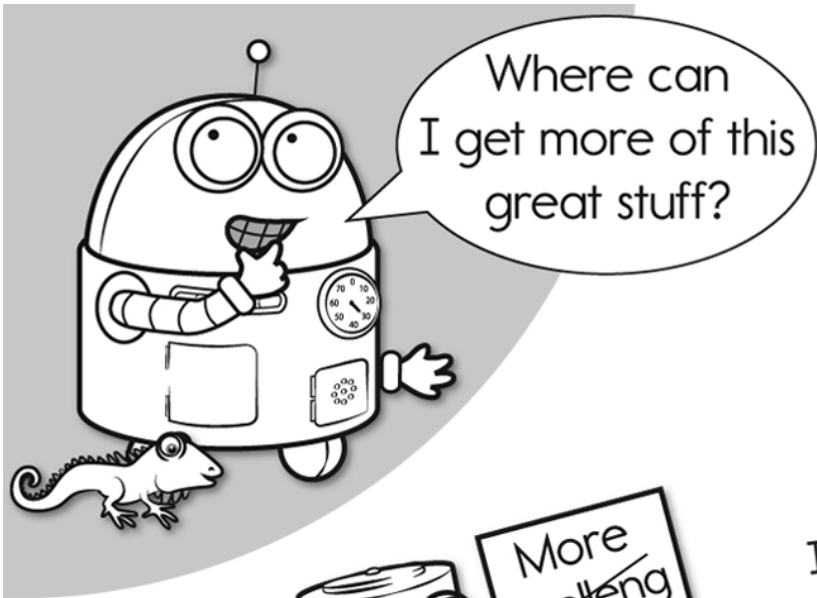
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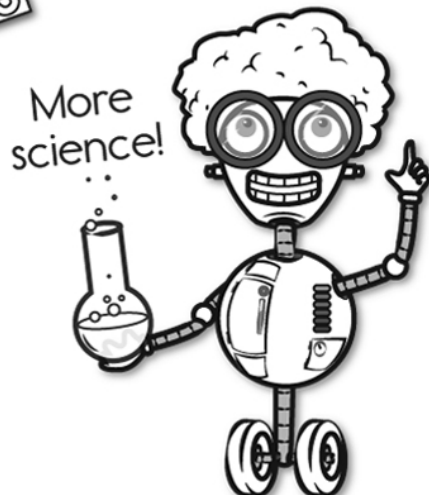
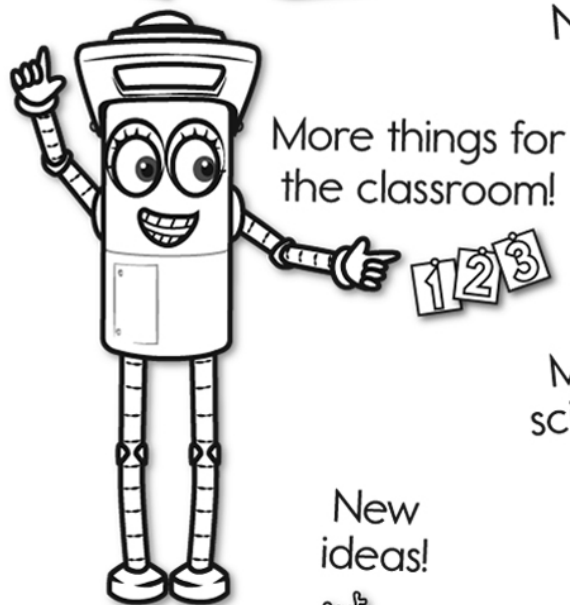
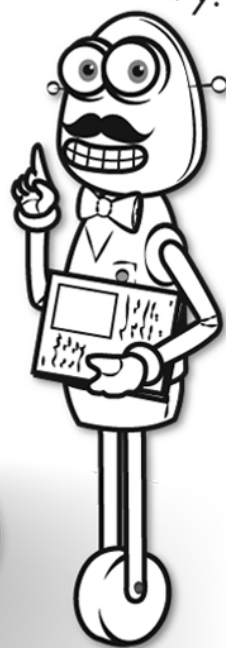
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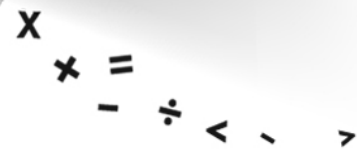


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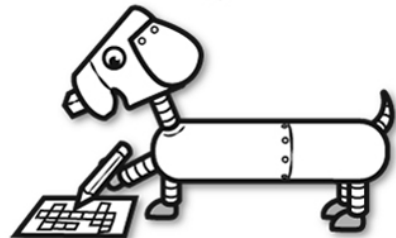
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