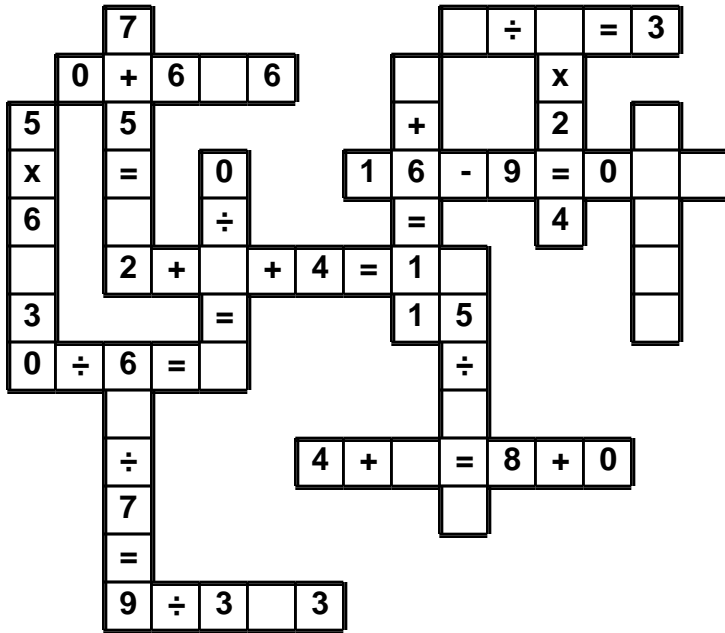


Name: _____

$$6 \cdot 2 \cdot = \cdot 5 \cdot 1 \cdot + \cdot 7 \cdot 1 \cdot 4 \cdot = \cdot 7 \cdot 3 \cdot = \cdot 5 \cdot 0 \cdot 3$$

$$7 \cdot 4 \cdot 5 \cdot =$$

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



$$7 \times 7 \times 7 \times 7 \times 7 = x^5$$

What is the value of x?

In what quadrant would you find the point (-3, -17)?

$$\frac{3}{9} \times \frac{2}{9}$$

Simplify.

$$\frac{42}{48} =$$

Simplify.

$$\frac{144}{168} =$$

$$|-15| - t = 13$$

$$t =$$

Name: _____

How would you estimate $6,413 \div 3,414$ to the nearest hundred?

- A) $7,400 \div 4,400$
- B) $6,400 \div 3,400$
- C) $5,400 \div 2,400$
- D) $7,400 \div 2,400$

Which number represents sixty-one thousands?

- A) 610000
- B) 6100
- C) 61000
- D) 61061

$4.0 + 0.79 =$

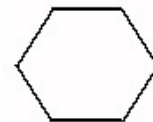
- A) 479
- B) 47.9
- C) 4.79
- D) 40.79

$5.7 + 4.71 =$

- A) 10.533
- B) 11.39
- C) 10.41
- D) 16.41

A diagram includes eleven hexagons, nine circles, nine heptagons, twelve squares, and four rays. How many polygons are in the diagram?

- A) 24
- B) 9
- C) 32
- D) 12



Name the polygon.

- A) Hexagon
- B) Pentagon
- C) Triangle
- D) Octagon

Name: _____

$$3 \overline{) 192}$$

$$16 \overline{) 192}$$

$$48 \overline{) 96}$$

$$5 \overline{) 75}$$

$$36 \overline{) 252}$$

$$16 \overline{) 960}$$

$$16 \overline{) 384}$$

$$54 \overline{) 756}$$

Change $\frac{810}{84}$ to a mixed number.

Rewrite as a vertical equation and solve.
 $68.19 + 68.19 + 6.68$

Reduce each fraction to its lowest terms.

$$\frac{7}{21} =$$

$$\frac{54}{72} =$$

$$\frac{16}{40} =$$

$$\frac{40}{56} =$$

$$\frac{8}{56} =$$

$$\frac{90}{108} =$$

132 is what percent of 220?

Reduce $\frac{10}{42}$ to its lowest terms.

$$\begin{array}{r} 9 \\ 4 \\ + 6 \\ \hline \end{array}$$

Name: _____

A Sally Ride Festival was held in Miles City to encourage middle school and high school girls to study math and science. Of the girls who attended, $\frac{2}{5}$ were in 7th grade, $\frac{1}{3}$ were in 8th grade, and the rest were in high school. What fraction of the girls was in high school?

After dinner, there were six pieces of fried chicken left on the platter -- two drumsticks, one breast, one thigh, and two wings. Mrs. Taylor wrapped the pieces and put one piece in each child's lunch. What is the probability the oldest child will get a drumstick in his lunch? Write the probability as a fraction in simplest terms.

Maria bought $3\frac{1}{4}$ cups of sour cream to put on tacos at her party. How many $\frac{1}{3}$ of a cup servings can she get from that amount of sour cream?

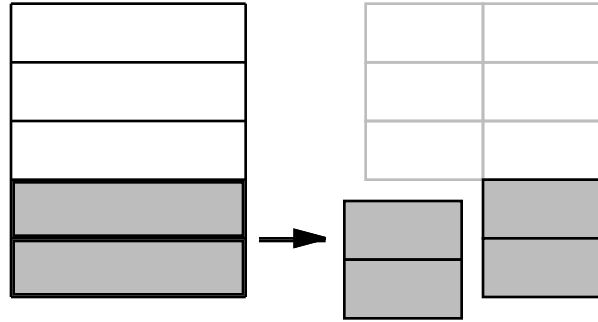
Hunter washes his father's car every five days. Kevin washes his mother's car every three days. Both of them washed their cars on October 27. On what date will Hunter and Kevin both wash cars again? Make an organized list to solve the problem.

Janna picked 40 flowers — just because! Two-fifths of the flowers are red. One-tenth of the flowers are yellow. The rest of the flowers are white. What is the ratio of red flowers to white flowers? (Write your answer as a fraction in lowest terms.)

Name: _____

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

Draw it.



$$\frac{1}{2} \text{ of } \frac{3}{6} = \frac{\boxed{}}{\boxed{}} \times \frac{\boxed{}}{\boxed{}}$$
$$= \frac{\boxed{}}{\boxed{}}$$

Draw it.

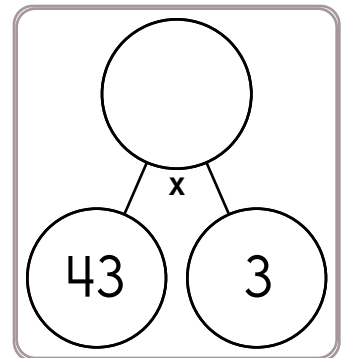
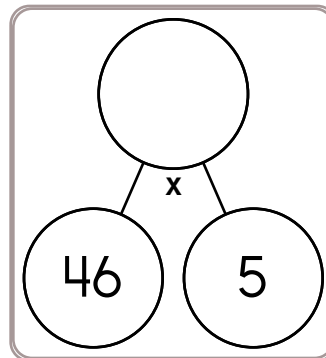
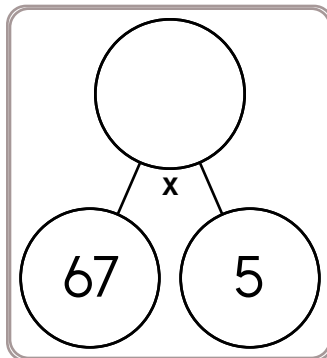
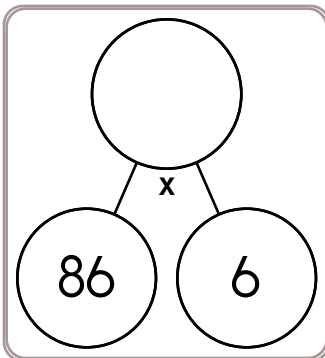
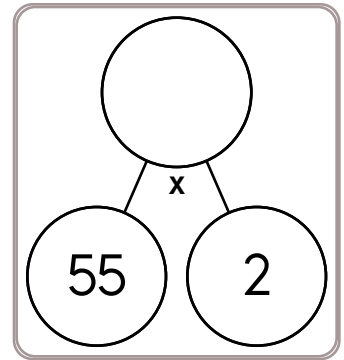
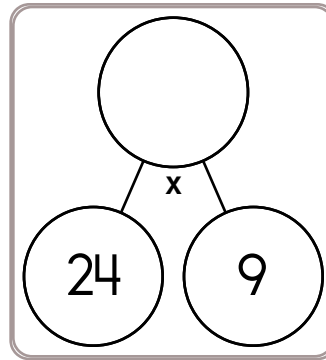
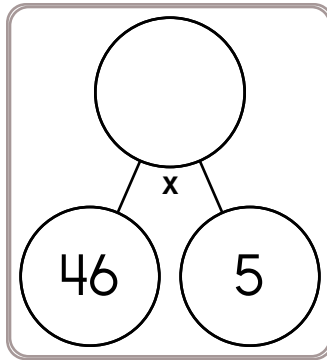
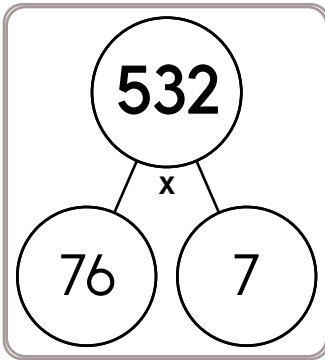
$$\frac{1}{4} \text{ of } \frac{1}{5} = \frac{\boxed{}}{\boxed{}} \times \frac{\boxed{}}{\boxed{}}$$
$$= \frac{\boxed{}}{\boxed{}}$$

Draw it.

$$\frac{3}{6} \text{ of } \frac{4}{5} = \frac{\boxed{}}{\boxed{}} \times \frac{\boxed{}}{\boxed{}}$$
$$= \frac{\boxed{}}{\boxed{}}$$

Draw it.

Name: _____



$6 \times 5 =$

$7 \times 7 =$

$11 \times 4 =$

$6 \times 9 =$

$4 \times 6 =$

$7 \times 6 =$

$10 \times 5 =$

$9 \times 2 =$

$5 \times 9 =$

$11 \times 5 =$

$5 \times 10 =$

$9 \times 9 =$



$__ \times 7 = 476$

$__ \times 6 = 168$

$39 \times __ = 351$

$80 \times __ = 720$

$60 \times __ = 420$

$__ \times 3 = 240$

$68 \times __ = 204$

$__ \times 5 = 60$

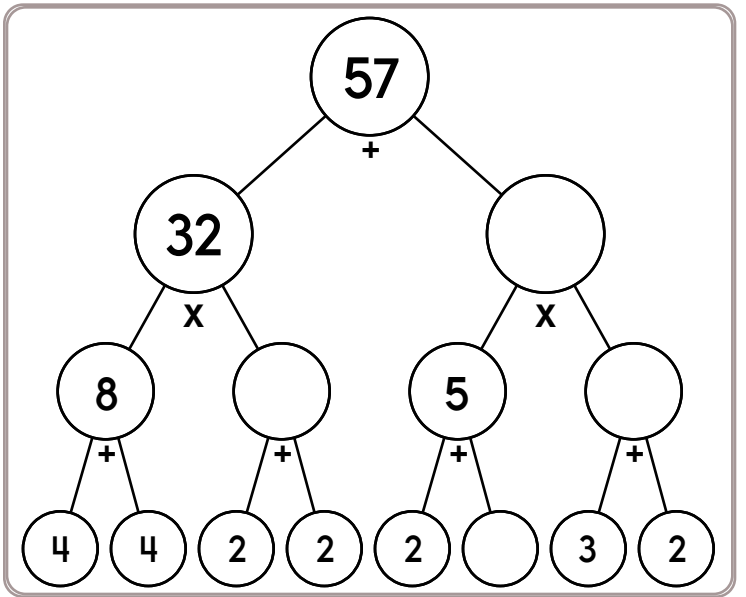
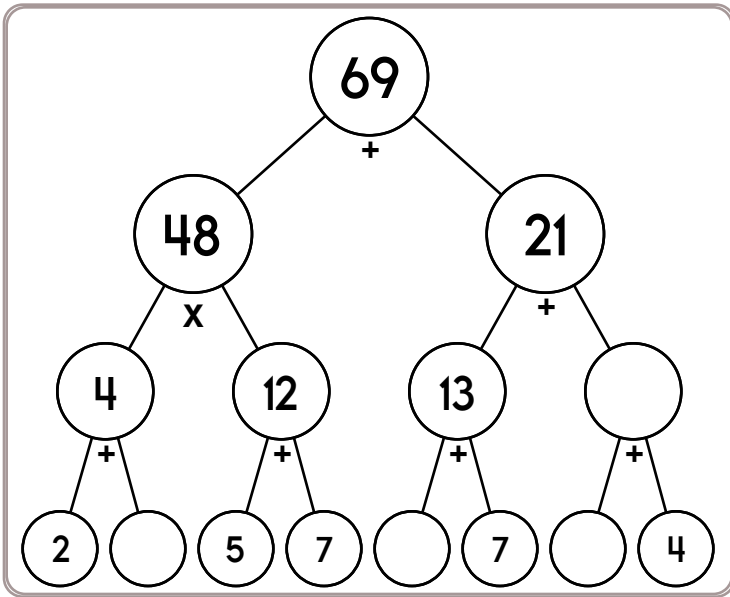
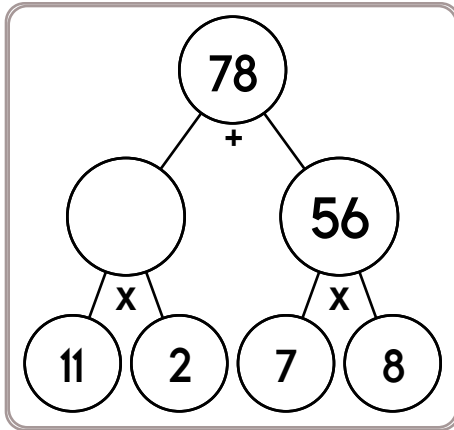
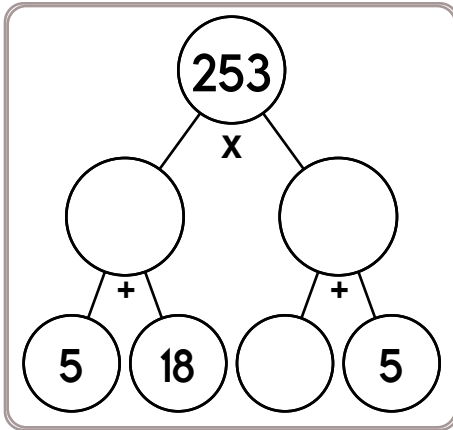
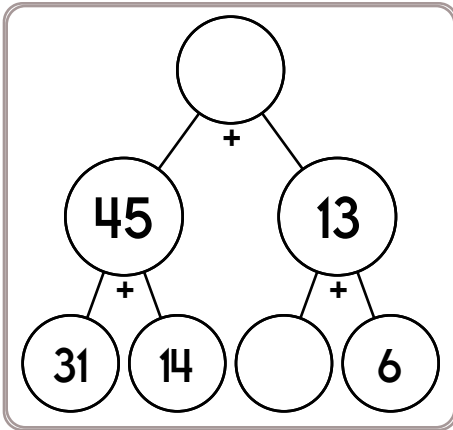
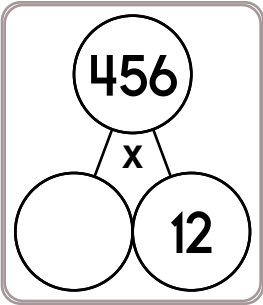
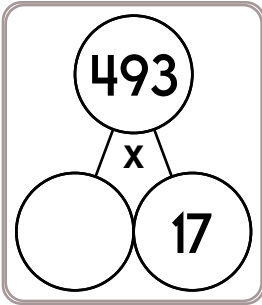
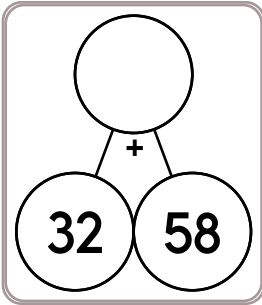
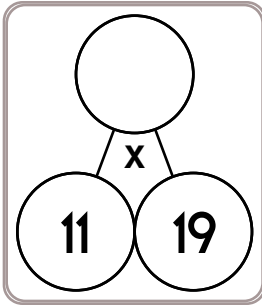
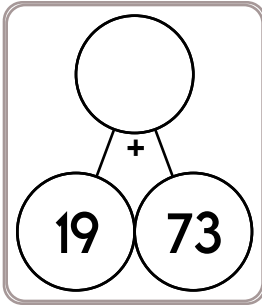
$96 \times __ = 768$

$19 \times __ = 95$

$__ \times 7 = 364$

$__ \times 5 = 180$

Name: _____



Find the least common denominator.

$$\frac{7}{12} \text{ and } \frac{4}{5}$$

Change $\frac{213}{45}$ to a mixed number.

$$\begin{array}{r} \frac{5}{6} \\ + \frac{2}{3} \\ \hline \end{array}$$

Name: _____

$$4 \overline{) 440}$$

Divide and write remainder.

$$\begin{array}{r} 2 \\ 2 \\ + 1 \\ \hline \end{array}$$

$$5 \overline{) 804}$$

Divide and write remainder.

$$37 \overline{) 1869}$$

Divide and write remainder.

$$2 \overline{) 5002}$$

Divide and write remainder.

$$6 \overline{) 403}$$

Divide and write remainder.

$$76 \overline{) 175}$$

Divide and write remainder.

$$\begin{array}{r} 795 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2,283 \\ \times \quad 25 \\ \hline \end{array}$$

Name: _____

Sudoku Sums of 7

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 7.

Here is an example of a sudoku sum of 7:



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

4	3
+	48

12 x 10 = _____

Write this as a number in standard form.
Use a comma in your number.

four hundred forty-six thousand, four
hundred eighty-one

7	0	9
-	2	83

Name: _____

$44 \div 4 = \underline{\hspace{2cm}}$	Can 415 be evenly divided by 9? Circle: 415 is NOT evenly divisible by 9 415 is evenly divisible by 9	$3 \times 9 =$
$3 \times 6 =$		
$108 \div 9 =$		

$\begin{array}{r} 207 \\ + 400 \\ \hline \end{array}$	$787 - 438 = \underline{\hspace{2cm}}$	$\begin{array}{r} 74 \\ - 23 \\ \hline \end{array}$
---	--	---

Write 3,223 in words. _____	$14 \text{ km} = \underline{\hspace{2cm}} \text{ m}$
--------------------------------	--

Circle the addition property for $45 + 125 = 125 + 45$. associative property commutative property	$120 \div 12 = \underline{\hspace{2cm}}$	$2 \times 3 = \underline{\hspace{2cm}}$
	$3 \times 2 = \underline{\hspace{2cm}}$	

You can buy 2 books for \$8 at the store. At this rate, what would be the cost of ten books?	$32 \div 8 =$	$1 \text{ lb} = 16 \text{ oz}$ $13 \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$
--	---------------	---

How many ounces are in 8 pounds? _____ ounces	Circle the digit in the tenths place. 51.815
--	---

Name: _____

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

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

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

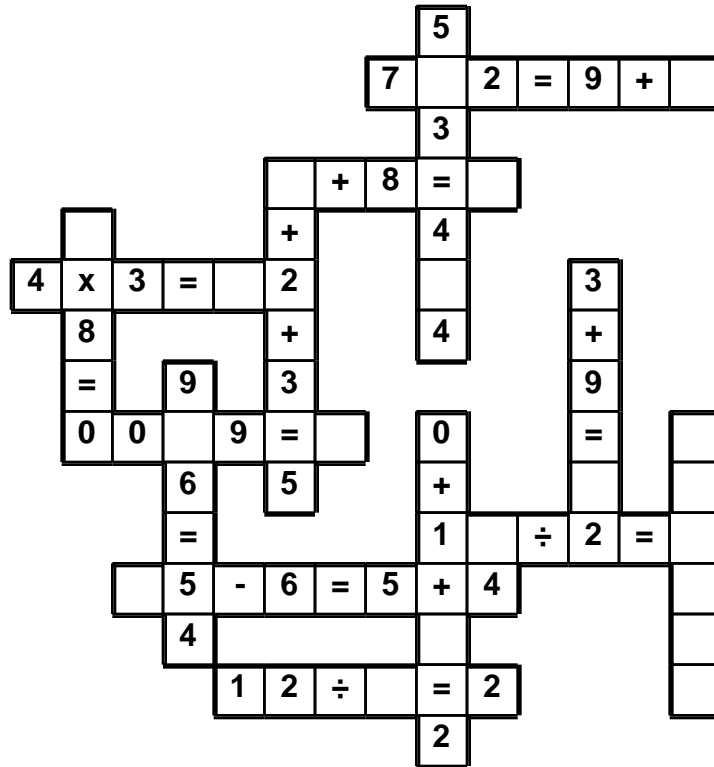
$5 \times 2 =$ _____	$5 \times 4 =$ _____	$6 \div 3 =$ _____
----------------------	----------------------	--------------------

$9 \times 5 =$ _____	<p>In the number 857,392,389, the digit 5 is in what place?</p> <p>_____</p>
----------------------	--

Name: _____

+ • 0 • 0 • 8 • 0 • 1 • + • x • 0 • 4 • 1 • + • 6 • 8 • 1 • = • 1 • 1
6 • 2

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



$3 \times 10 = \underline{\hspace{2cm}}$

$12 \div 4 = \underline{\hspace{2cm}}$

Write the missing family fact.

$11 \times 26 = 286$

$286 \div 26 = 11$

$286 \div 11 = 26$

You want to buy an entire pizza, but you cannot decide which pizza store to go to. Emily's pizza cuts their pizza into 6 slices. Each slice costs \$4 each. Wendy's pizza cuts their pizza into 4 slices. Each slice costs \$5 each. If you like each pizza the same, which pizza store has the better buy?

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

Name: _____

Courtney, Kylie, Savannah, and Taylor competed in the women's singles figure skating competition.

Each person has been assigned a technical and presentation ordinal mark. A mark of 1.0 indicated that the person was placed in first place. To determine the winner, the two marks from each judge are added together and assigned an ordinal. In case of a tie, the technical mark has more weight. If there is still a tie, we will allow both people to share the same rank. (Please note that these calculations are simplified from the actual Olympics.)

For the technical ordinal score, the judges give the best performance an ordinal of one. The next best performance receives an ordinal of two, and so on. The presentation ordinal score is assigned in the same way. So for four people, a person could have a presentation ordinal score ranging from 1 to 4.

(When ordinals are compared, a higher ordinal score actually means a lower number. For example an ordinal of 1 is better, and considered higher than an ordinal of 3.)

Figure out the scores for each skater and their final rankings.

1. Taylor had the best technical ordinal score.
2. Taylor's technical ordinal is higher than her presentation ordinal.
3. Savannah's technical ordinal score was higher than Kylie's technical ordinal score.
4. One skater received a 2 presentation ordinal and a 3 technical ordinal.
5. Savannah's technical ordinal is lower than her presentation ordinal.
6. One skater received a 3 presentation ordinal and a 4 technical ordinal.
7. Taylor did not have a presentation ordinal mark of 1.
8. Courtney's technical ordinal score was higher than Kylie's and lower than Savannah's.

Courtney received a score of _____. Courtney came in _____ place.

Kylie received a score of _____. Kylie came in _____ place.

Savannah received a score of _____. Savannah came in _____ place.

Taylor received a score of _____. Taylor came in _____ place.

Name: _____

$$\begin{array}{r} 40 \\ 131 \\ 576 \\ + 33 \\ \hline \end{array}$$

Change to percents.

$0.68 = \underline{\hspace{2cm}}$

$0.94 = \underline{\hspace{2cm}}$

$0.77 = \underline{\hspace{2cm}}$

$0.5 = \underline{\hspace{2cm}}$

$0.06 = \underline{\hspace{2cm}}$

Write each as a decimal.

$2\frac{7}{10} =$

$7\frac{18}{100} =$

$17\frac{62}{100} =$

$14\frac{27}{100} =$

$9\frac{53}{100} =$

$18\frac{9}{10} =$

Find 44% of 139.

$14.29 \times 100 =$

Divide and write remainder.

$42 \div 8 =$

$$\begin{array}{r} 239 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 99,674.8 \\ 862,997.5 \\ 9,410,131.8 \\ +7,825,941.09 \\ \hline \end{array}$$

Change 0.60 to a percent.

Name: _____

There were 17,992 households in Miles City in 1949. Of these households, half had radios. In 1954, there were 24,101 households in Miles City.

Three-fifths of them had radios. How many more households had radios in 1954 than in 1949?

Alex's first jazz piano performance lasted $12\frac{2}{3}$ minutes. His second piece lasted $701/60$ minutes.

Which lasted longer? How much longer? (Round off the answer to the nearest 0.01 minute.)

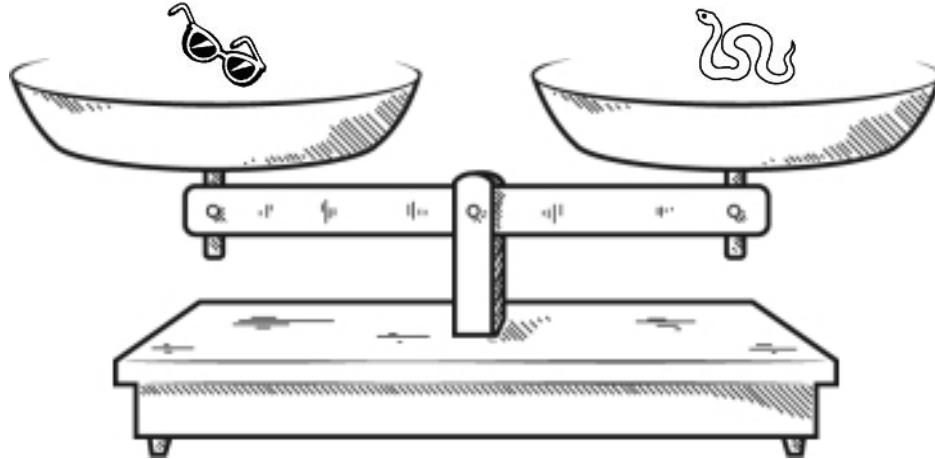
Amy and Anne were looking at two exponential expressions that had the same exponent but different bases. They were not sure how to tell which one had the greatest value. Can you give them some advice?



Jenna wants to buy 25 cases of Coca-Cola for the barbecue. Each case costs \$10.45 plus 6.5% sales tax. What will the total cost of the drinks be?

The revolving stage at the Palace of Illusion moves very slowly. It takes the stage 2.8 minutes to turn 18 degrees. How long does it take the stage to make one complete revolution?



When the notary public asked Holly her age, Holly answered, "I am twice as old as my sister Amy. Amy is one-sixth as old as my father. My father is ninety-six years old." How old is Holly?

Name: _____




 = 


True False

 < 



True False

 = 



True False

 = 

True False

 = 

True False

 = 

True False

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

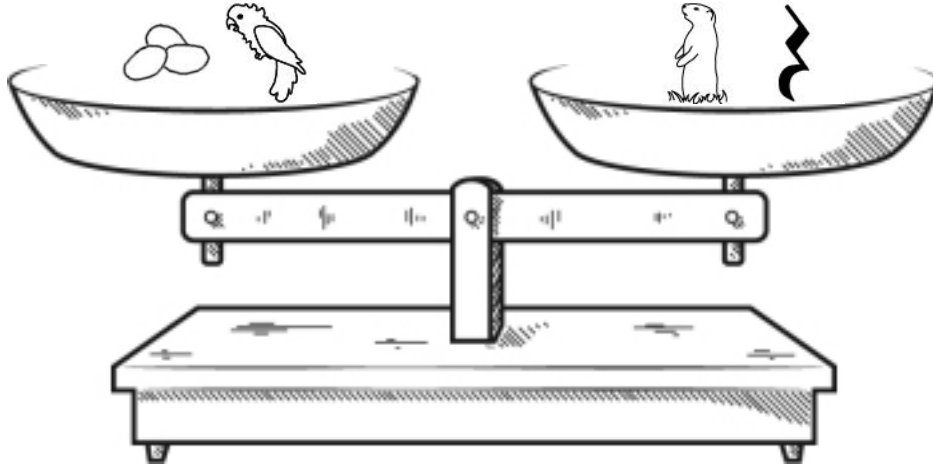
You should only mark TRUE if you are absolutely sure it is correct!

Find the difference between 4,952 and 4,578.


Change 0.39 to a percent.


Find 75% of 248.


Name: _____




It may help to give values to pictures.




 = 8

 = 14

 = _____







 = _____

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









  =  True False

  >  True False

   >   True False

   =    True False

   =      True False

     =    True False

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

Name: _____

Four students (Nicole, Natalie, Nicholas, and Jacob) at a school have each been assigned a different id number (98,217, 10,505,371, 5,284, and 6,327,271). Each of the students is in a different grade (ninth, eighth, first, and seventh).

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

1. The student in the ninth grade has an ID number equal to $200 + 1 + 20,000 + 70 + 7,000 + 6,000,000 + 300,000$.
2. The ten thousands digit in 72,531,258 is four less than the grade that Nicholas is in.
3. Natalie's number is one hundred more than ninety-eight thousand, one hundred seventeen.
4. The thousands digit in Nicholas' ID number is three more than the hundreds digit.
5. The student in the first grade does not have a five in the thousands digit.
6. The largest place value in Jacob's ID number is the hundred millions digit.

Nicole has an ID number of _____ and is in the _____ grade.

Natalie has an ID number of _____ and is in the _____ grade.

Nicholas has an ID number of _____ and is in the _____ grade.

Jacob has an ID number of _____ and is in the _____ grade.

$11 \times 6 =$ _____

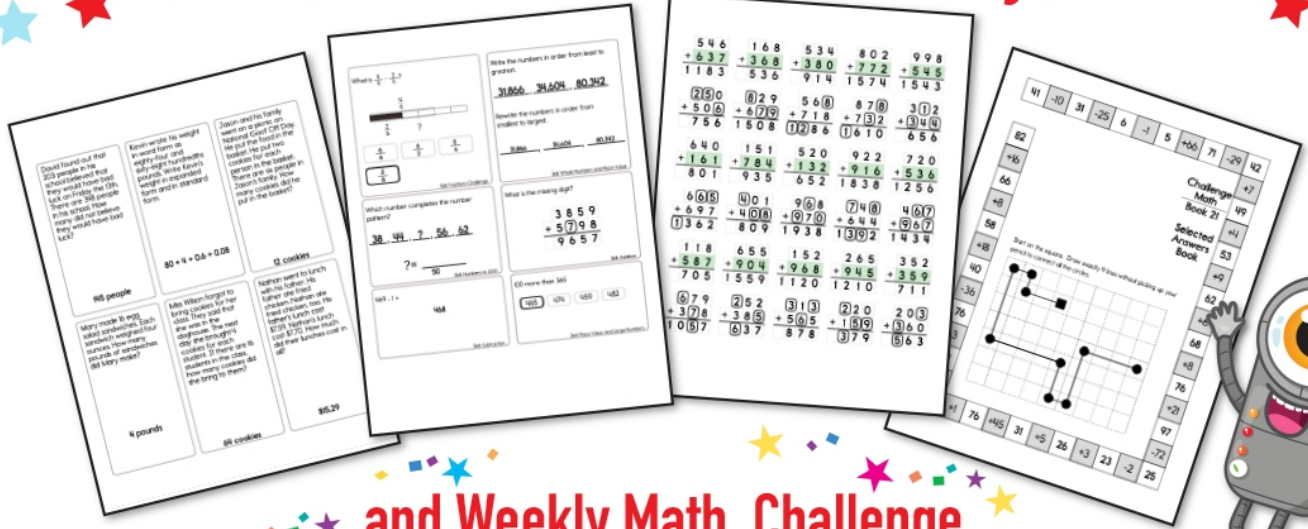
Can 831 be evenly divided by 4? Circle:

831 is evenly divisible by 4

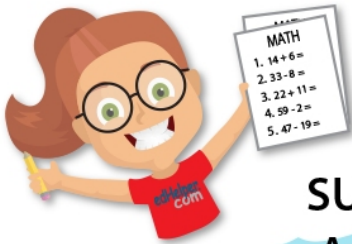
831 is NOT evenly divisible by 4

$18 \div 6 =$ _____

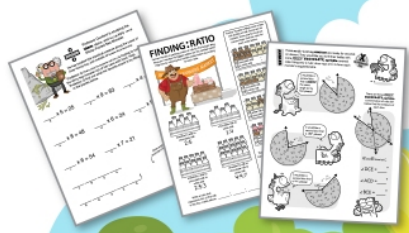
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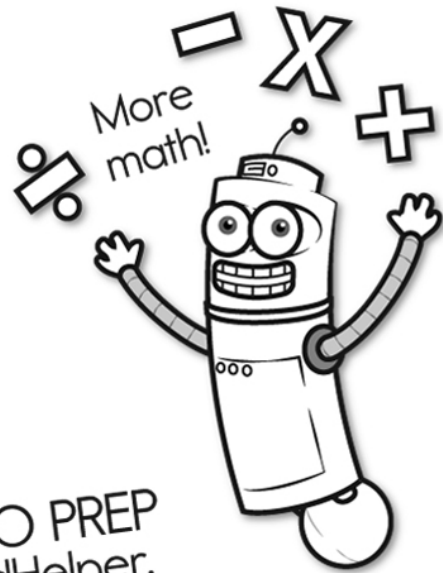
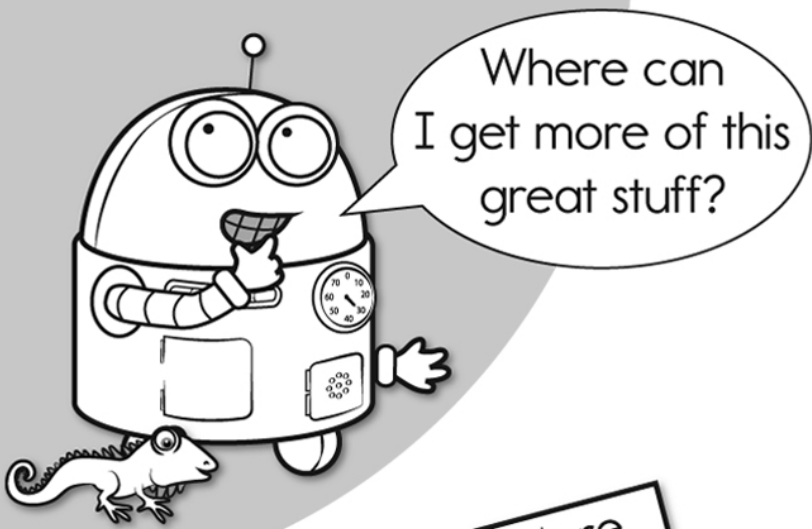
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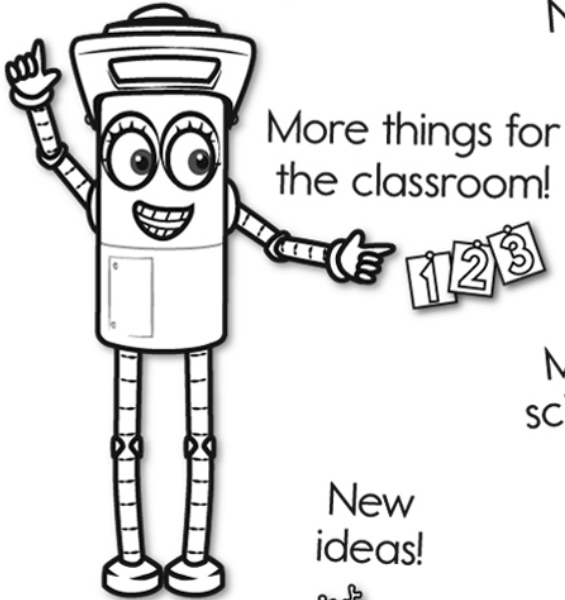
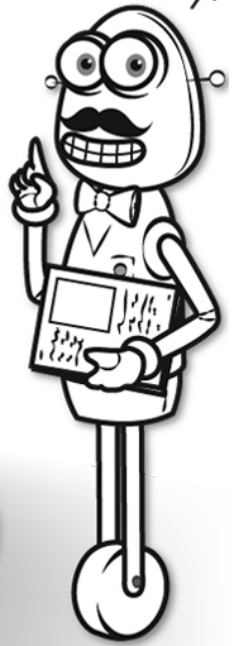
It's NO PREP at edHelper.

More history!

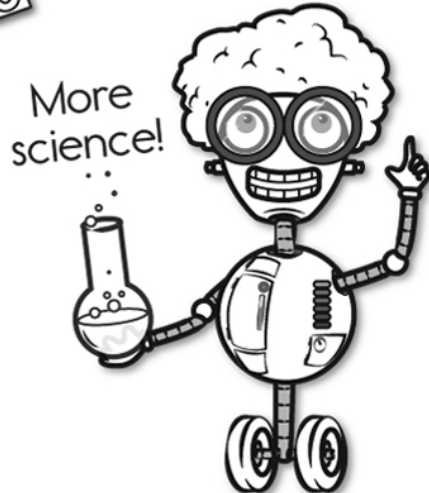


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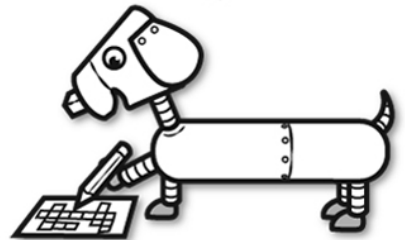
1 2 3



x
+ =
- ÷ < - >

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