Name: _____

Justin and Sara volunteer at the thrift shop during the summer. Justin works every fourth day beginning June 5. Sara works every third day beginning May 25. Find the first day they will work together.

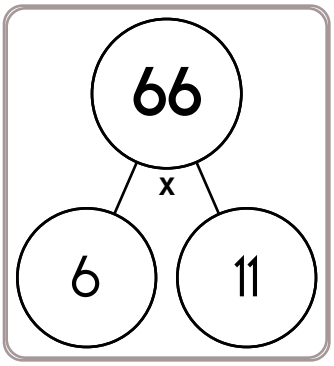
To reach his potential, Max wants to increase his running speed by 3/4 mile/hour. If he increases his speed at the rate of 1/8 mile/hour each month, how long will it take him to reach his potential?

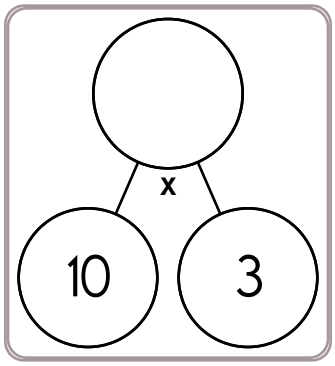
Adam bought a commercial antivirus software package for $40.95 plus 5.75% sales tax. After a 10-day trial period, he returned it to the store and received a refund of 55% of his cost (including tax). How much money did he get back?

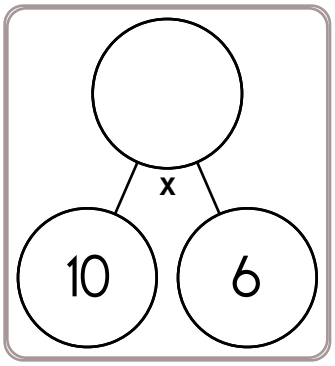
Name: _____

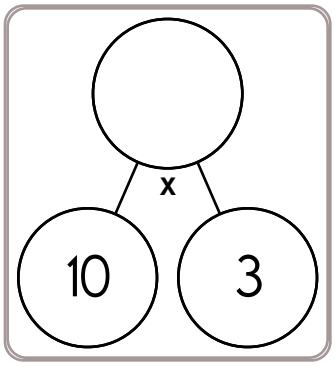
MAD MINUTES

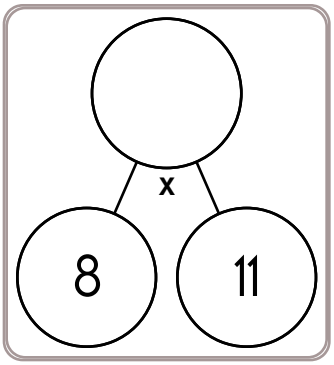
___ x 3 = 24	6 x ___ = 18	___ x 4 = 8
2 x ___ = 4	___ x 12 = 84	___ x 5 = 35
2 x ___ = 14	2 x ___ = 10	10 x ___ = 60
___ x 10 = 30	___ x 5 = 15	9 x ___ = 27

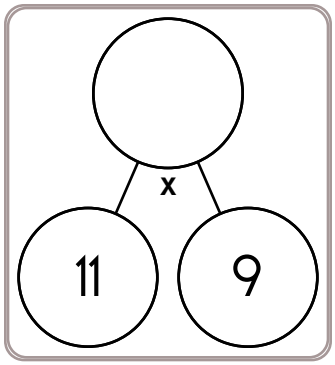


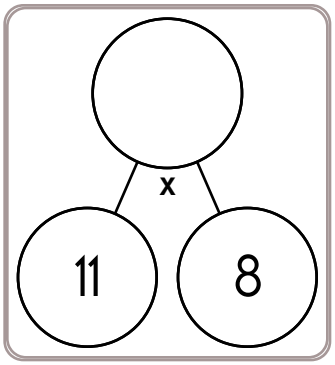


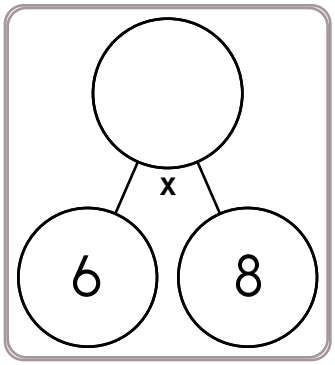








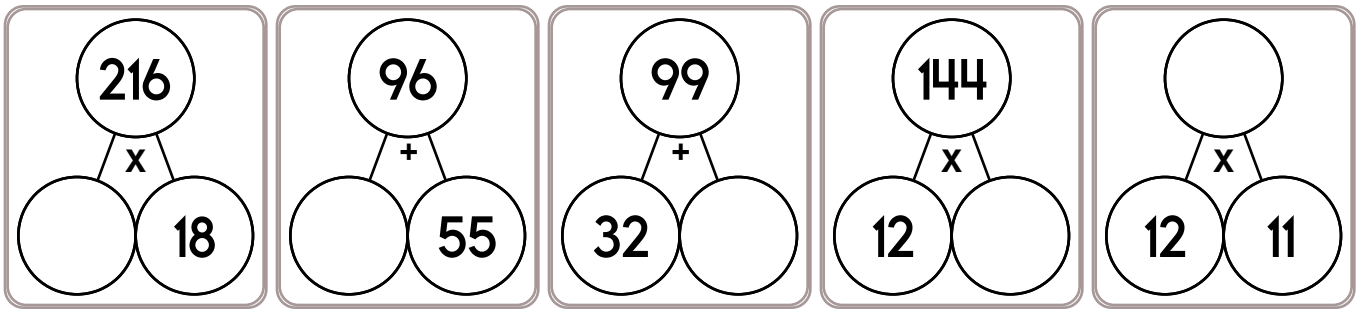


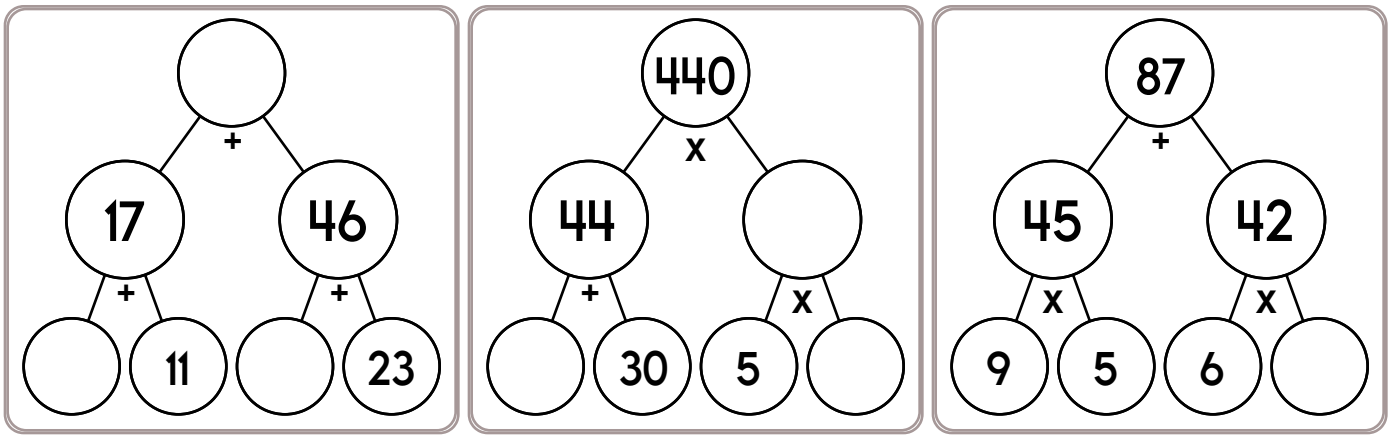


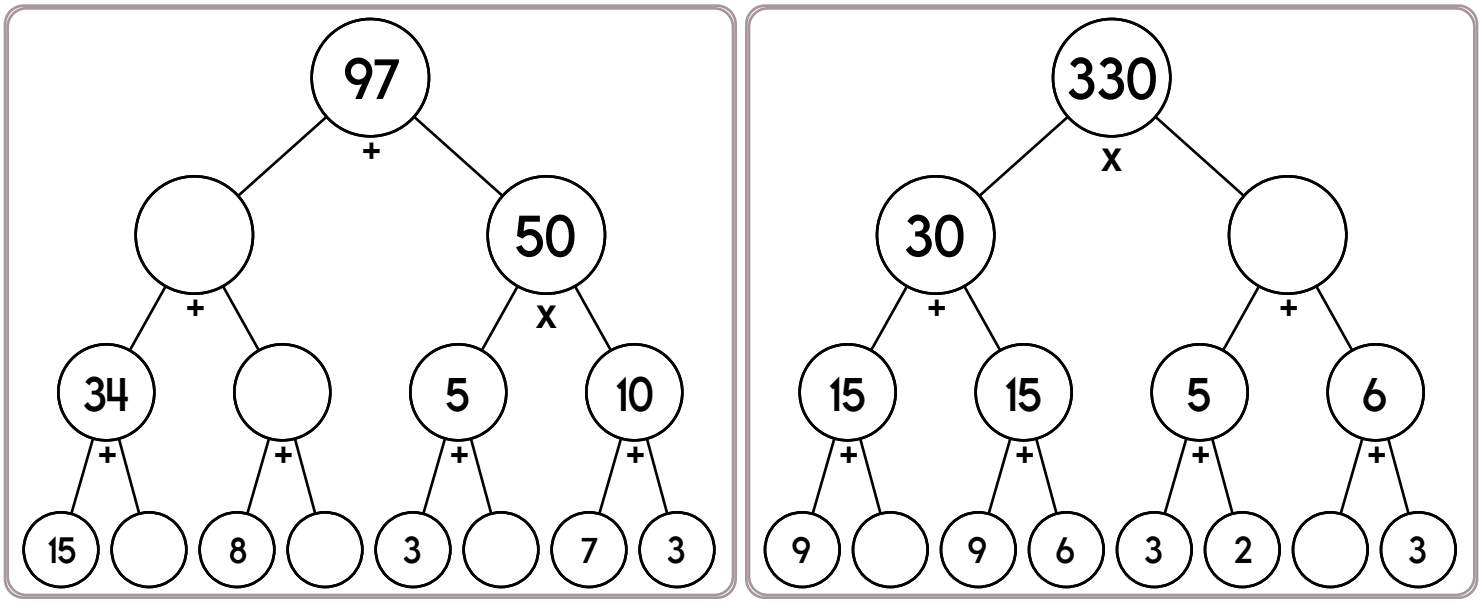
MAD MINUTES

27 x 4 =	95 x 5 =	43 x 5 =
70 x 7 =	36 x 3 =	51 x 6 =
20 x 9 =	30 x 8 =	34 x 3 =
78 x 6 =	92 x 6 =	22 x 7 =

Name: _____







0.2 x 0.4

What is the greatest common factor of the numbers 120 and 30?

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

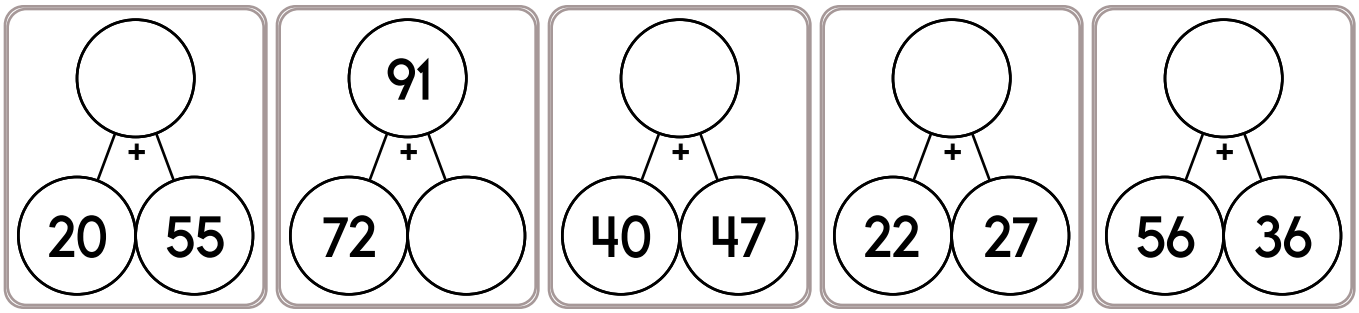
Name: _____

9 ÷ ___ = 3	___ ÷ 8 = 9	81 ÷ ___ = 9
___ ÷ 2 = 2	30 ÷ ___ = 6	___ ÷ 4 = 5
15 ÷ ___ = 3	___ ÷ 5 = 8	___ ÷ 9 = 2
___ ÷ 4 = 6	32 ÷ ___ = 4	63 ÷ ___ = 9

$8\overline{)80}$	$5\overline{)40}$	$3\overline{)9}$	$11\overline{)99}$
$8\overline{)96}$	$9\overline{)63}$	$3\overline{)36}$	$9\overline{)99}$
$5\overline{)20}$	$7\overline{)63}$	$6\overline{)36}$	$7\overline{)28}$

538 - 38 =	531 - 65 =
474 - 26 =	335 - 98 =
494 - 88 =	773 - 47 =
961 - 62 =	544 - 15 =

Name: _____



Change to a percent.

$\frac{9}{100}$

Find 81% of 2.

37 is what % of 100?

Rewrite $\frac{7}{20}$ as a decimal.

If b = 9 and v = -54 then what is 5b + 13v - 4v = ?

585 ÷ 10

$18\frac{4}{5}$, _____, $19\frac{1}{4}$,
$19\frac{9}{20}$, $19\frac{7}{10}$, $19\frac{9}{10}$,
$20\frac{3}{20}$, $20\frac{7}{20}$, $20\frac{3}{5}$,
$20\frac{4}{5}$, $21\frac{1}{20}$, $21\frac{1}{4}$,
$21\frac{1}{2}$

Rewrite as an algebraic expression or equation.

Fifteen subtracted from a number is forty-four.

At the dive meet Jason received scores of 7.7, 7.7, 7.6, 7.3, and 9.7. The largest and smallest scores were dropped and the rest were averaged for a final score. What is the final score Jason received?

Name: _____

Pay the bill!

April received a bill from Central Water for $219.44. Write the check as April would write it.

APRIL 1469

DATE _____

PAY TO THE ORDER OF _____ $ _____

_____ DOLLARS

MEMO _____

⑆993413330⑆ ⑈4314⑈ 1469

Pay the bill!

Rent is due. April needs to pay her landlord $1,900. Her landlord's name is Anna Martinez.

APRIL 1470

DATE _____

PAY TO THE ORDER OF _____ $ _____

_____ DOLLARS

MEMO _____

⑆993413330⑆ ⑈4314⑈ 1470

$t - 8 + t = 40$

What is the value of t?

If $h = 10$ and $w = -6$

then what is $h^2 + w^2$?

$(0.8)(0.12)$

Simplify.

$\frac{3{,}000}{4{,}500} =$

$|-14| + b = 16$

$b =$

What is the value of s?

$4s + 16 - 3s = -2$

Name: _____

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

A

	90	53	**35**
+	**3**	54	40
	38	33	83
	8	66	67

Find an addition fact.

B

	76	85	69
+	65	47	44
	52	72	14
	29	87	27

Find an addition fact.

C

	52	43	**27**
+	81	86	94
	11	93	18
	67	30	44

Find an addition fact.

Equations:
Write the equation facts you found.

A	35	+	3	=	38
B		+		=	76
C		+	27	=	

$-88 \div 8 =$

$\frac{-21}{-3} =$

$24 \div -4 =$

Round 87,441 to the nearest hundred.

A toy car can go 3 mph. How long would it take to go 7 miles?

$6 \div 6 + 11$

Name: _____

Sara procrastinated studying until 5 minutes before the spelling test. As a result, she only spelled 2 out of 3 words correctly. There were 15 words on the test. How many did she spell correctly?

Connor and his two friends wrote a list of things they love about America. Connor has twice as many reasons on his list as Hunter. Hunter has 12 reasons on his list. Hunter has 4 times as many reasons on his list as Jacob. How many reasons do they have in all?

Mr. Lee bought some paint to make birdhouses. He put the paint in smaller cans so each student in his class could have a can. Each can holds $1\frac{1}{3}$ pints of paint. He filled 15 $\frac{1}{2}$ small cans with the paint he bought. How many pints of paint did he buy?

45 ÷ 9 = _____

Can 690 be evenly divided by 10? Circle:
690 is evenly divisible by 10
690 is NOT evenly divisible by 10

$$\begin{array}{r} 74 \\ -\ 22 \\ \hline \end{array}$$

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

Rewrite these in increasing order of length:

236 m, 908 km, 183 dm, 836 cm, 45 mm

Name: _____

What Words? Your Words!

Fill in the boxes with letters to make words. Each box is worth points. Earn points by filling in as many boxes as you can. Sum up the points you earn for each word.

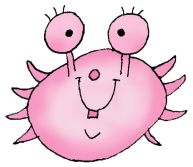
Once you use a letter, cross it off on the bottom. You cannot use the same letter more than once.

Make a Word	Sum
1 2 4 8 12 — P E S T	7
1 2 4 6 10 14 — M O	
1 2 4 8 14 20 — B U	

A ~~B~~ C D ~~E~~ F G H I J K L ~~M~~
N ~~O~~ ~~P~~ Q R ~~S~~ ~~T~~ ~~U~~ V W X Y Z

Make a Word	Sum
1 2 4 6 10 16 — A I	
1 2 4 8 12 18 24 — O	

~~A~~ B C D E F G H ~~I~~ J K L M
N ~~O~~ P Q R S T U V W X Y Z

4 8 3 + 2 4 3	Holly rolls two dice. What is the chance of her rolling a 1 on one die and a 2 on the other die? _____	6 x 9 =	10 x 6 = _____
6 1 4 - 5 0 1	11,293 + 34,171 = _____	3 6 + 2 0	

Circle the addition property for 40 + 164 = 164 + 40.

commutative property

associative property

You cannot decide what pizza store to go to. Sara's pizza cuts their pizza into 4 slices. Each slice costs $2 each. Jessica's pizza cuts their pizza into 6 slices. Each slice costs $5 each. If you like each pizza the same, which pizza store has the better buy?

word root **tempor** can mean **time** **extemporaneous, extemporaneously, temporal**

Name: _____

3 x 9 = _____

1 cm = 10 mm

21 cm = _____ mm

108 ÷ 9 =

Fill in the missing operations to complete this equation:

32 ____ 8 ____ 28 = 32

For 6,783,917,031,709,871, write the digit that is in the hundred thousands place.

_____

How many kilograms are in 3,000 grams?

_____ kilograms

5,795 + 2,542 = _____

Can 435 be evenly divided by 3? Circle:

435 is evenly divisible by 3

435 is NOT evenly divisible by 3

78,699 - 76,248 = _____

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

six hundred thousand, forty-two

_____

Two cards cost $6. At that rate, what is the cost of 8 cards?

9 kg = _____ g

30 ÷ 3 = _____

60 ÷ 6 = _____

Write the missing family fact.

86 - 13 = 73
13 + 73 = 86
73 + 13 = 86

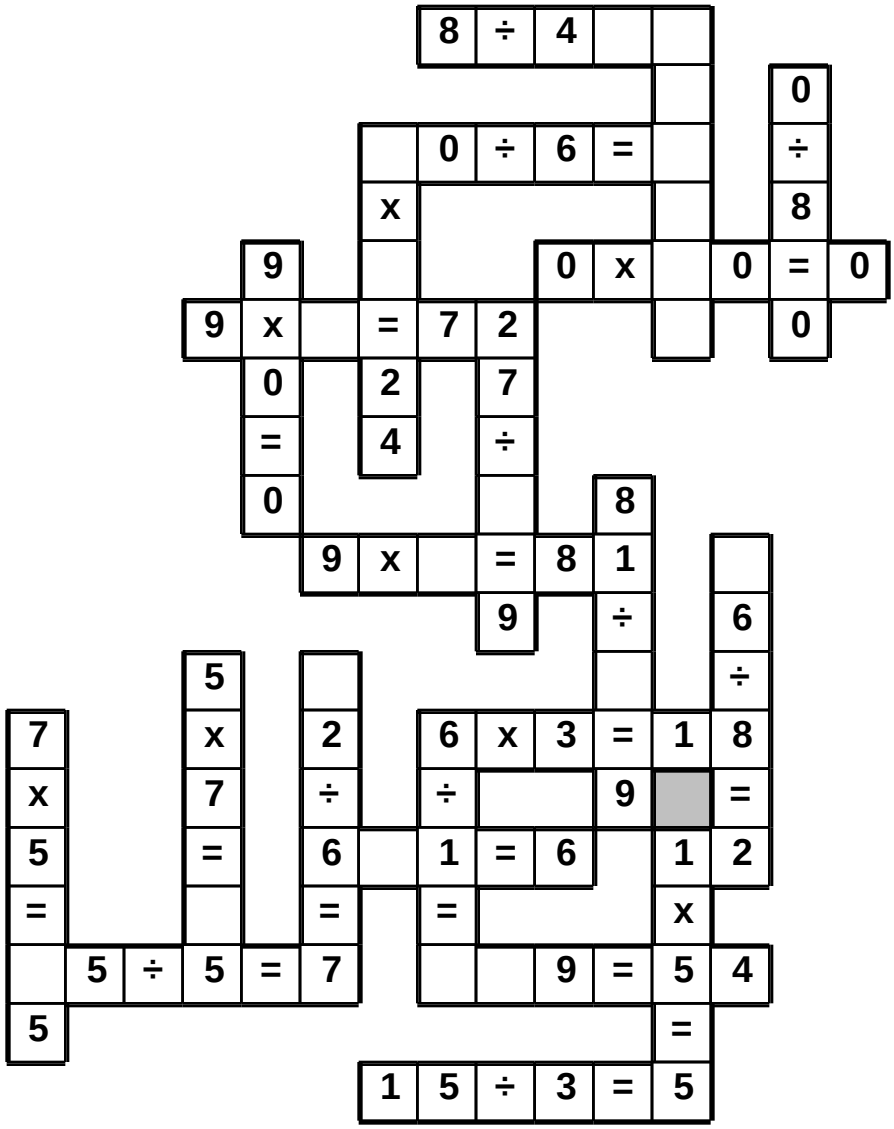
_____

Rose took three numbers greater than 1 and multiplied them. One number was three and the other number was twenty. Of course, she forgot the last number, but she remembered the product was 480. Is this possible?

Name: _____

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

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



Circle the smallest number:

975,103,620 15,643,890,722

318,967 54,083,462

121 ÷ 11 = _____

108 ÷ 9 = _____

Anne is younger than Jenna. Rose is younger than Anne. Who's the oldest?

8 x 7 = _____

8 x 11 =

Name: _____

"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 87 texts in only 6 minutes. At precisely 3:22 Ted finally sat down outside of school to play his phone. He played his phone until 3:47 when his phone ran out of power. How many texts do you think Texty Ted sent?

Holly lives at the point (-9, 8). She wants to go to the closest mall. There are two malls on the map. One is at (-5, 12) and the other is at (-11, 15). Which is closer to her?

What is the greatest common factor of 6 and 12?

What is the least common multiple of 8 and 13?

What is the greatest common factor of 6 and 18?

Name: _____

$60\overline{)240}$ $7\overline{)448}$ $27\overline{)297}$ $15\overline{)810}$

$10\overline{)180}$ $24\overline{)432}$ $8\overline{)160}$ $12\overline{)288}$

$60\overline{)660}$ $35\overline{)280}$ $24\overline{)1296}$ $12\overline{)504}$

0.6 (0.2 (0.6 + 7)) =

4 x 72 ÷ 8 - 36 ÷ 12 =

$\frac{2}{3} \div \frac{1}{6} =$

|-69| x [55| =

What is the remainder of 62 divided by 7?

12 + 4 • 10 + 12

Name: _____

Fill in the blanks with >, =, or the < sign.

-33 - (-23) _____ 40 + 20

-9 + 40 _____ -29 - 40

-31 - 30 _____ 16 - (-26)

36 + 20 _____ 30 + (-12)

-15 - (-26) _____ 18 + 34

Show the steps to solve 5(34 - 7 - 17) + 595 ÷ 7 x 12

Parentheses

Exponents

Multiplication & Division (or Division & Multiplication!)

Addition & Subtraction (or Subtraction & Division!)

Name: _____

Sara needs to make these two fractions equal. Help her find the missing number!

$$\frac{12}{56} = \frac{??}{112}$$

Rewrite $\frac{3}{5}$ as a decimal.

(15 + 6 + 12) =

19d - 24.1 = 118.4

d =

The letter p is used to represent power points in a game, which can range from 729 to 799 points. Express this as an inequality.

A circle graph has four sections. Only three sections are labeled. The labels are 14%, 24%, and 17%. What should the missing section be?

What is the prime factorization of 9?

Name: _____

Jordan, Ashley, Lauren, and Natalie 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. Natalie's technical ordinal is equal to her presentation ordinal.
2. Jordan's technical ordinal score was higher than Lauren's technical ordinal score.
3. Ashley's technical ordinal score was higher than Lauren's and lower than Jordan's.
4. One skater received a 3 presentation ordinal and a 2 technical ordinal.
5. Lauren's technical ordinal is equal to her presentation ordinal.
6. Ashley did not have a presentation ordinal mark of 4.
7. Natalie had the best technical ordinal score.
8. One skater received a 1 presentation ordinal and a 1 technical ordinal.

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

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

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

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

word root **acr** can mean **bitter or sharp** **acrid, acrimony**

Name: _____

Cross off the letter that does NOT belong.

C, F, D, H, E, I, J, F, L, G, N, H, P

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong.

49, 55, 61, 68, 75, 78, 83, 91, 100, 109, 119, 129, 140, 151, 163, 175, 188

Why does _____ not belong in the pattern?

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: 7 8

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

Write the reciprocal.
18

Write the reciprocal.

$\frac{16}{17}$

Write the reciprocal.

$\frac{3}{4}$

Name: _____

Complete each pattern, using the same rule. Write what the rule is.

9, 63, 72, 504, 513, 3591, _____, _____

8, 56, 65, 455, 464, 3248, 3257, _____, _____, _____

5, _____, _____, _____, _____, 2219

Complete each pattern. Write what the rule is.

$15\frac{2}{3}$, 16, $16\frac{1}{2}$, $16\frac{5}{6}$, $17\frac{1}{3}$, $17\frac{2}{3}$, $18\frac{1}{6}$,

_____, _____, $19\frac{1}{3}$, $19\frac{5}{6}$, $20\frac{1}{6}$, $20\frac{2}{3}$

_____, 15, $15\frac{1}{2}$, $15\frac{5}{6}$, $16\frac{1}{3}$, _____, _____,

$17\frac{1}{2}$, 18, $18\frac{1}{3}$, $18\frac{5}{6}$, $19\frac{1}{6}$, $19\frac{2}{3}$

Name: _____

Find the missing numbers. These both have the same rule. What is the rule?

If

1 , 9 = 10

2 , 13 = 15

3 , 16 = 19

4 , 19 = 23

Then

5 , 21 = ?

If

7 , 8 = 15

8 , 11 = 19

9 , 14 = 23

10 , 18 = 28

Then

11 , 21 = ?

Complete each pattern. Write what the rule is.

653326, 332665, 266533, 653326, 332665, _____, _____,

332665, 266533, 653326, 332665, 266533, 653326, 332665

69146, 14669, 66914, 91466, _____, _____, 14669,

66914, 91466, _____, 69146, 14669, 66914, 91466

Name: _____

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

36, 17, 1, 45, 25, 5, 54, 39, 33, 3, 63,

41, 1, 72, 49, 1, 81, 57, 3, 90, 65

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong.

$\frac{1}{9}$, $\frac{1}{3}$, (1) , (3) , (9) ,

(27) , (81) , (135) ,

(243) , (729) , (2,187)

Why does _____ not belong in the pattern?

Name: _____

Ashley, Joseph, Anna, and Matthew each went to the grocery store and bought a number (4, 9, 2, and 6) of some type of plant (bananas, bunches of celery, heads of lettuce, and walnuts). They each only bought one type of plant, however they differed in how much they bought.

They carried the items that they bought to class.

What did each person bring to class?

1. Anna brought in the most number of items.
2. Someone brought in two walnuts.
3. Ashley said that the edible part of her items are the seeds.
4. Someone brought in four bunches of celery.
5. Joseph brought in less than seven items.
6. Matthew said that his items come from the leaf of a plant.
7. Anna's items are not a vegetable.
8. Joseph said that his items come from the stem of a plant.

Ashley brought in _____ (how many) _____ (type of plant).

Joseph brought in _____ (how many) _____ (type of plant).

Anna brought in _____ (how many) _____ (type of plant).

Matthew brought in _____ (how many) _____ (type of plant).

What is the value of d?

$6d + 13 - 5d = -3$

$\frac{2}{11} \times \frac{7}{11}$

Rewrite $\frac{19}{25}$ as a decimal.

$25 \div 5 =$ _____

Name: _____

Four students (Timothy, Joseph, Zachary, and James) at a school have each been assigned a different id number (96,428, 973,221, 5,748,162, and 88,943). Each of the students is in a different grade (fourth, third, ninth, and fifth).

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

1. The student in the fifth grade has an ID number equal to 3 + 900 + 80,000 + 40 + 8,000.
2. The tens digit in James' ID number is two more than the ten thousands digit.
3. The largest place value in Joseph's ID number is the hundred millions digit.
4. The student in the fourth grade does not have a seven in the ten thousands digit.
5. Timothy's number is one hundred more than eighty-eight thousand, eight hundred forty-three.
6. The student in the ninth grade has an ID number equal to 200 + 900,000 + 70,000 + 20 + 3,000 + 1.
7. The ten thousands digit in 45,744,182 is one more than the grade that Zachary is in.
8. The student in the ninth grade does not have an eight in the ten thousands digit.

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

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

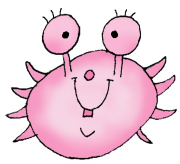
Zachary has an ID number of _____ and is in the _____ grade.

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

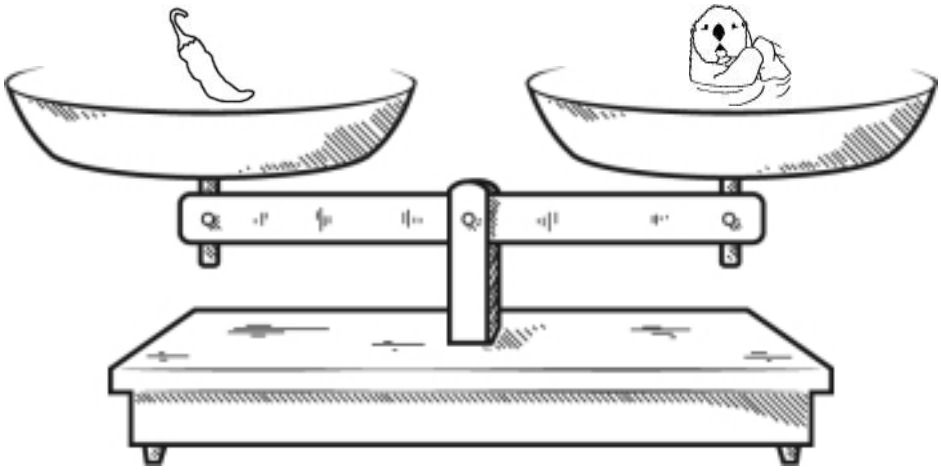
What is the sum of 2.1 and 8.7?

What is the sum of 11.1 and 1.3?

$$\begin{array}{r} 0.55 \\ -\,0.349 \\ \hline \end{array}$$



Name: _____



☐ 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!

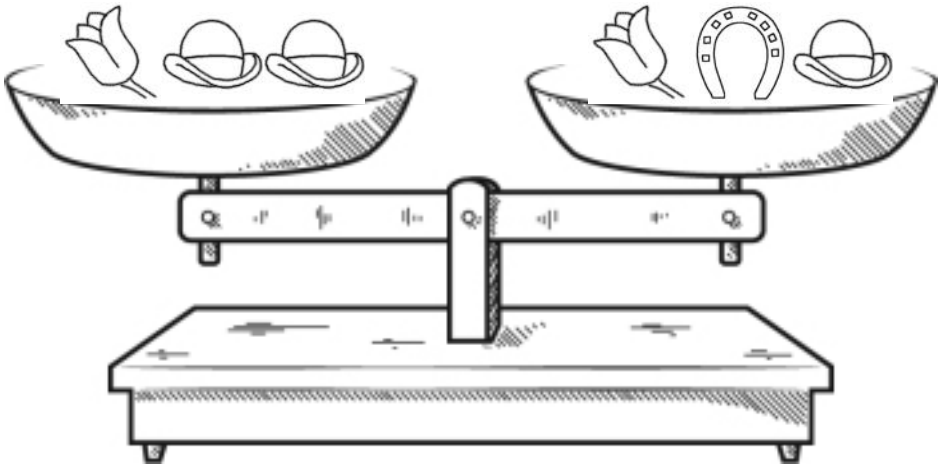
$\frac{16}{18} \div \frac{2}{6} =$

$9 \times 9 \times 9 \times 9 = x^4$

What is the value of x?

(0.9)(0.12)

Name: _____

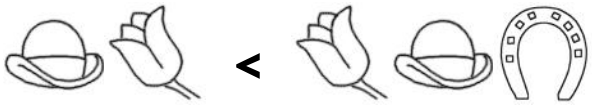


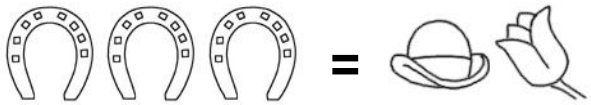
☐ True ☐ False

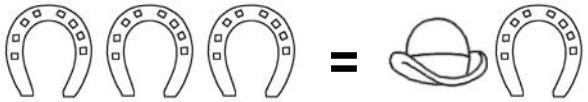
☐ True ☐ False

☐ True ☐ False

☐ True ☐ False

 ☐ True ☐ False

 ☐ True ☐ False

 ☐ True ☐ False

☐ True ☐ False

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

Hint: If you see the same pieces on both sides, you might need to remove both pieces.

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

word root **tort** can mean **twist** **contorted, torture**

Name: _____

Draw 3 pictures in the correct order. Use each of the clues so you will know what to draw.

Draw 1 of these 3 pictures.
The picture IS in the correct spot.

Draw 1 of these 3 pictures.
The picture is NOT in the correct spot.

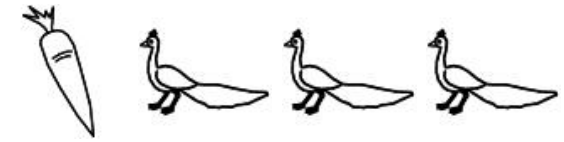
Draw 1 of these 3 pictures.
The picture is NOT in the correct spot.

Draw 2 of these 3 pictures.
The pictures to use are in the correct spot.

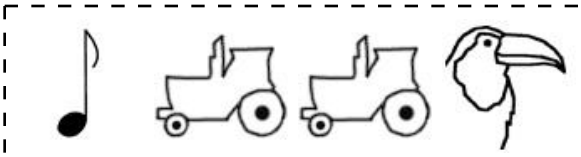
Draw the 3 pictures in the correct order:

Draw 4 pictures in the correct order. Use each of the clues so you will know what to draw.

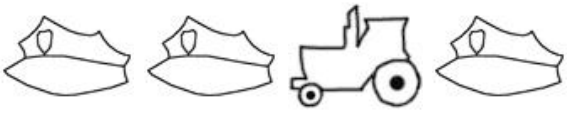
Draw 1 of these 4 pictures.
The picture is NOT in the correct spot.



Draw 1 of these 4 pictures.
The picture IS in the correct spot.



Draw 1 of these 4 pictures.
The picture IS in the correct spot.

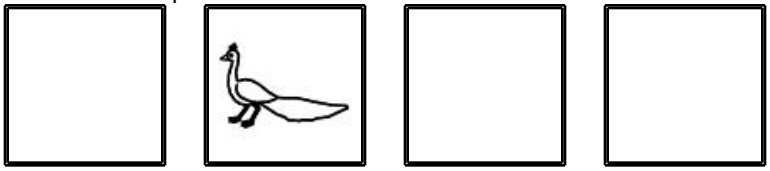


Draw 2 of these 4 pictures.
The pictures to use are in the correct spot.

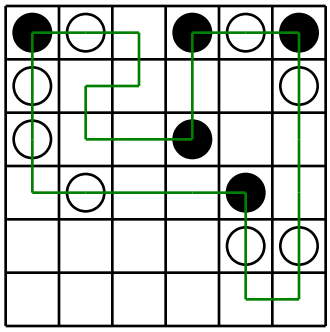
Draw 2 of these 4 pictures.
None of those pictures are in the correct spot.

Draw 1 of these 4 pictures.
The picture IS in the correct spot.

Draw the 4 pictures in the correct order:



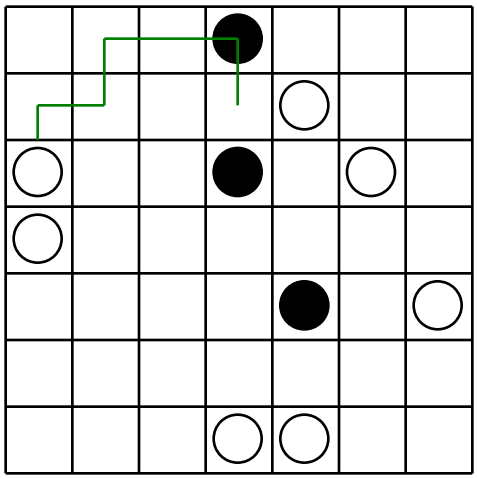
Name: _____



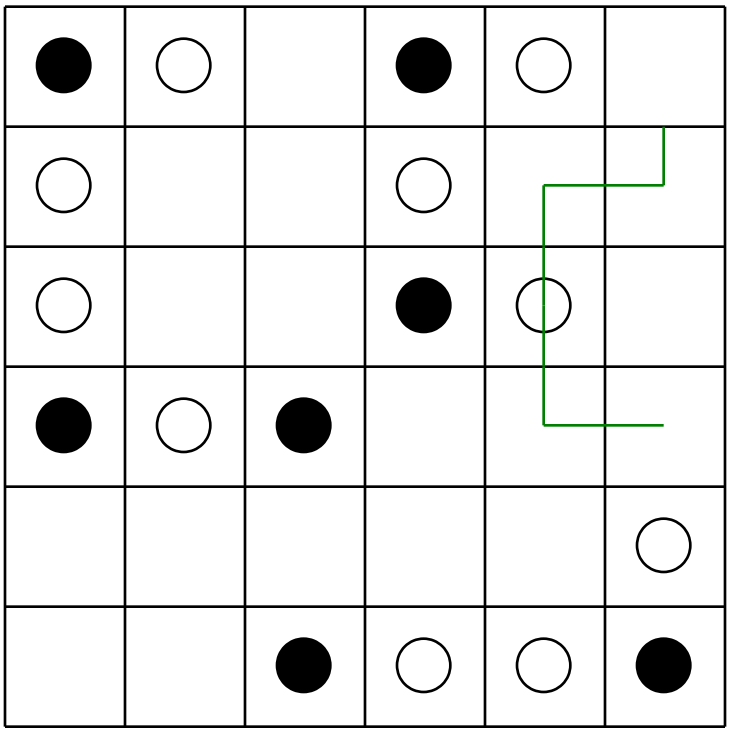
Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn.
You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

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

Finish the line:



Finish the line:



Emma and her little sister, Rosa, both have birthdays on the same day. Emma is fourteen years old. Rosa is nine years old. Did you know that Emma was once double the age of Rosa? How many years ago was that?

48 ÷ 4 =

5 x 4 = _____

12 ÷ 3 = _____

18 ÷ 2 = _____

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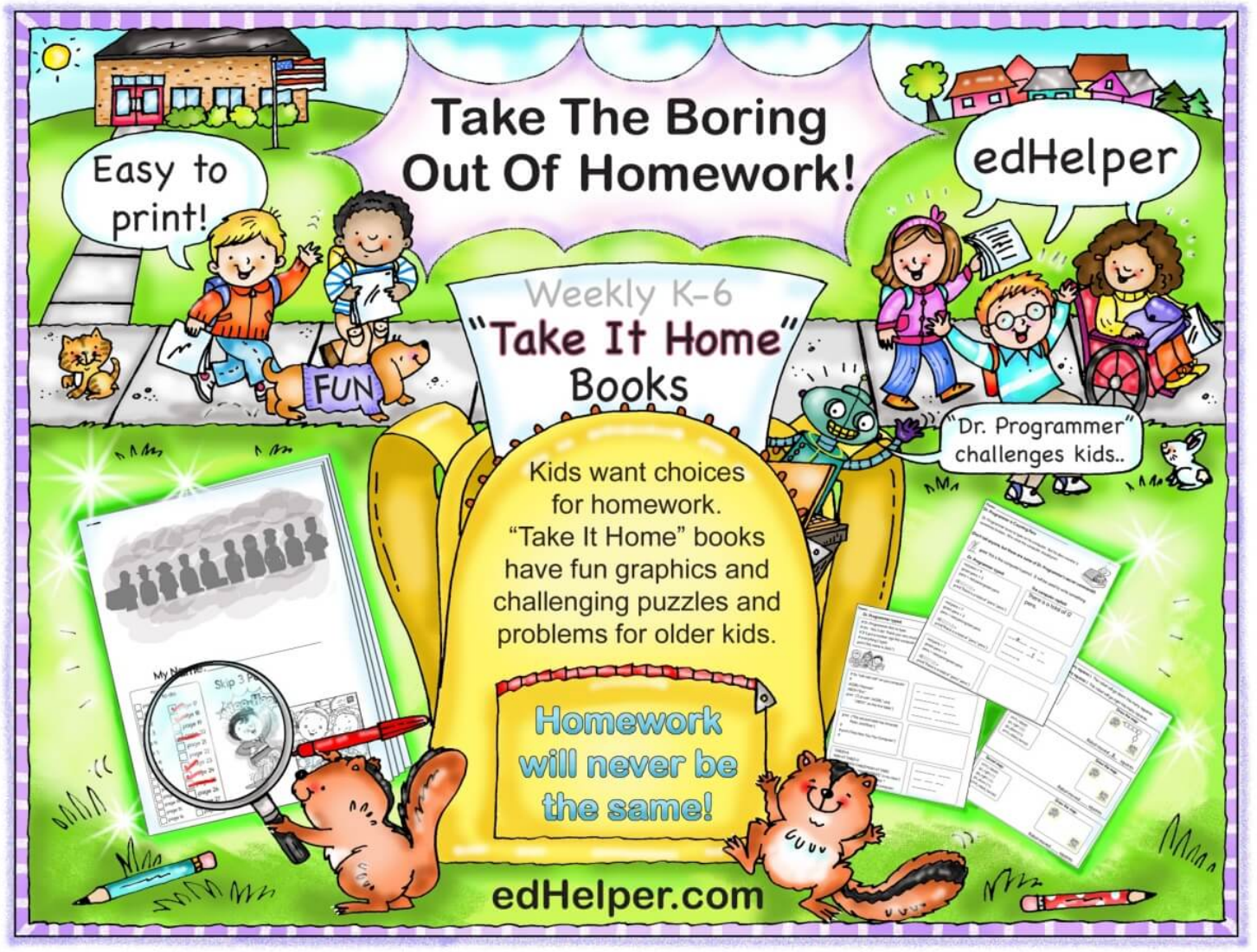
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