

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

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

\_\_\_\_\_, \_\_\_\_\_, 50, 59, 68, 77

37, 46, 55, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 91, 100, 109, 118

49, \_\_\_\_\_, \_\_\_\_\_, 76, 85, 94, \_\_\_\_\_, \_\_\_\_\_

Complete each pattern. Write what the rule is.

$18 \frac{1}{5}$ ,  $18 \frac{2}{5}$ ,  $18 \frac{13}{20}$ ,  $18 \frac{17}{20}$ ,  $19 \frac{1}{10}$ ,  $19 \frac{3}{10}$ ,  $19 \frac{11}{20}$ ,

\_\_\_\_\_, \_\_\_\_\_,  $20 \frac{1}{5}$ ,  $20 \frac{9}{20}$ ,  $20 \frac{13}{20}$ ,  $20 \frac{9}{10}$

$13 \frac{3}{5}$ ,  $13 \frac{4}{5}$ ,  $14 \frac{1}{20}$ , \_\_\_\_\_, \_\_\_\_\_,  $14 \frac{7}{10}$ ,

$14 \frac{19}{20}$ ,  $15 \frac{3}{20}$ ,  $15 \frac{2}{5}$ , \_\_\_\_\_,  $15 \frac{17}{20}$ ,  $16 \frac{1}{20}$

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

$$\begin{array}{c} 15\frac{1}{4} \\ + \\ \bigcirc \\ + \\ 8\frac{5}{8} \end{array}$$

$$\begin{array}{c} 13\frac{2}{3} \\ + \\ \bigcirc \\ + \\ 8\frac{8}{9} \end{array}$$

$$\begin{array}{c} \bigcirc \\ + \\ 3\frac{2}{5} \\ + \\ 2\frac{3}{5} \end{array}$$

$$\begin{array}{c} \bigcirc \\ + \\ 3\frac{3}{4} \\ + \\ 1\frac{3}{4} \end{array}$$

$$\begin{array}{c} \bigcirc \\ + \\ 3\frac{2}{3} \\ + \\ 7\frac{1}{2} \end{array}$$

$$\begin{array}{c} 9 \\ + \\ 2\frac{1}{3} \\ + \\ \bigcirc \end{array}$$

$$\begin{array}{c} \bigcirc \\ + \\ 2\frac{1}{2} \\ + \\ 4\frac{1}{2} \end{array}$$

$$\begin{array}{c} 7\frac{1}{5} \\ + \\ 1\frac{7}{10} \\ + \\ \bigcirc \end{array}$$

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

Ms. King drove from her home to Marksville to notarize some documents for the court. It is one hundred ninety-five miles to Marksville and it took her 3 hours and 49 minutes to drive there. What was Ms. King's average speed on the trip?

The Crazy Color Candy Company plans to make 15,776 pieces of licorice for Licorice Day. If they make an equal number of each of 4 flavors, how many will they make of each flavor?

Ava told her father that she needed 91 inches of rope to make a double jump rope. He said that he needed to know how many feet of rope she wanted. Change 91 inches to feet.

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



$5 \times 6 =$

$4 \times 5 =$

$6 \times 6 =$

$8 \times 7 =$

$9 \times 7 =$

$5 \times 8 =$

$4 \times 3 =$

$2 \times 3 =$

$3 \times 7 =$

$5 \times 2 =$

$2 \times 6 =$

$9 \times 9 =$



$\_\_ \times 6 = 54$

$2 \times \_\_ = 14$

$\_\_ \times 10 = 120$

$8 \times \_\_ = 96$

$\_\_ \times 8 = 48$

$11 \times \_\_ = 132$

$\_\_ \times 4 = 48$

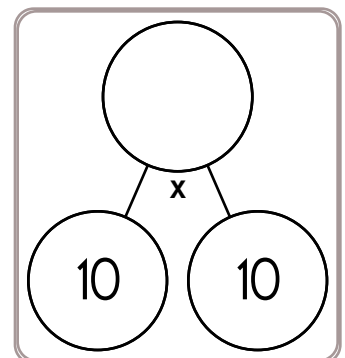
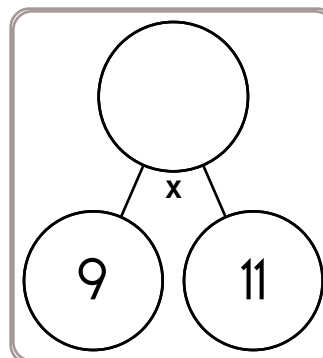
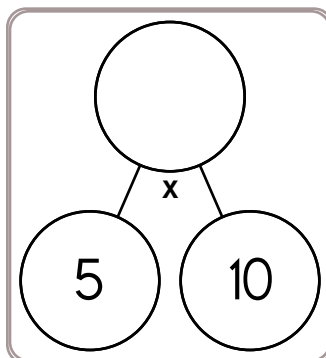
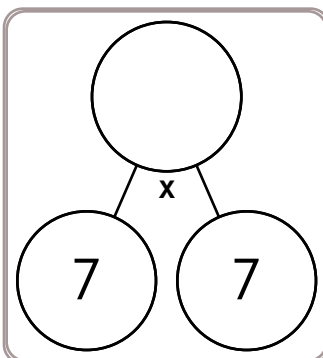
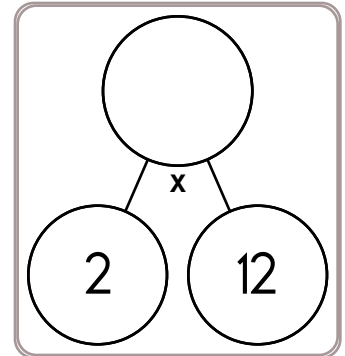
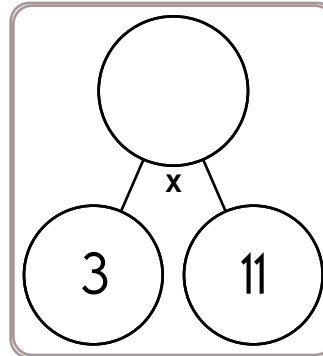
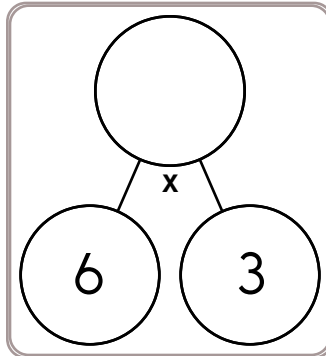
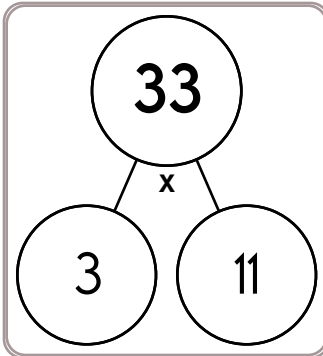
$4 \times \_\_ = 24$

$\_\_ \times 4 = 36$

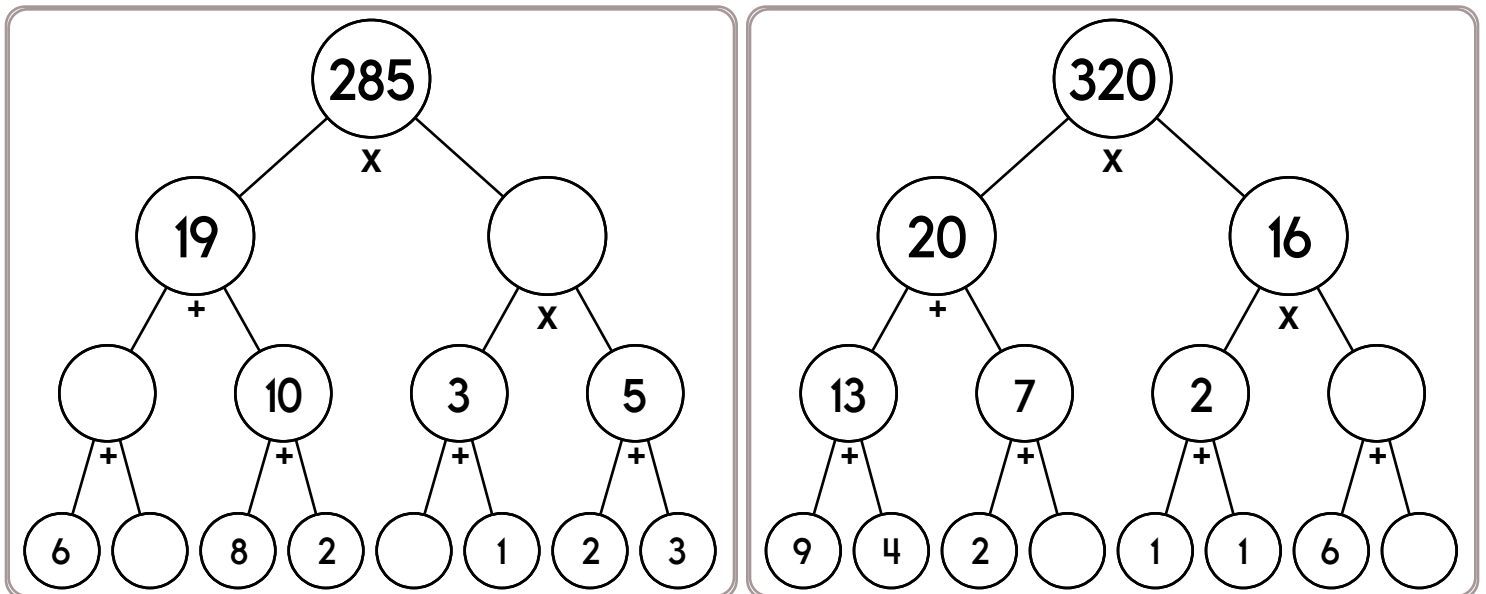
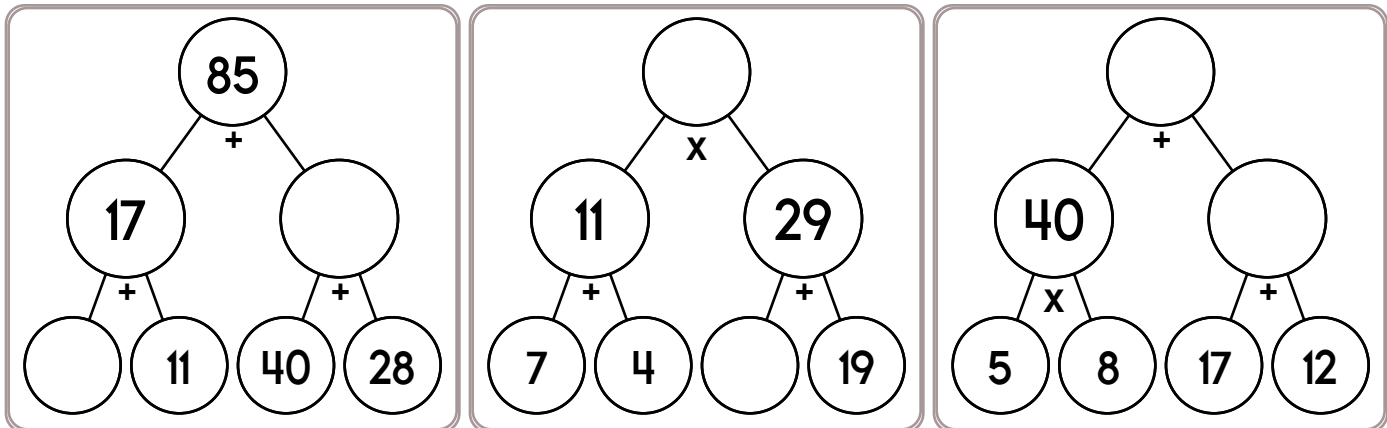
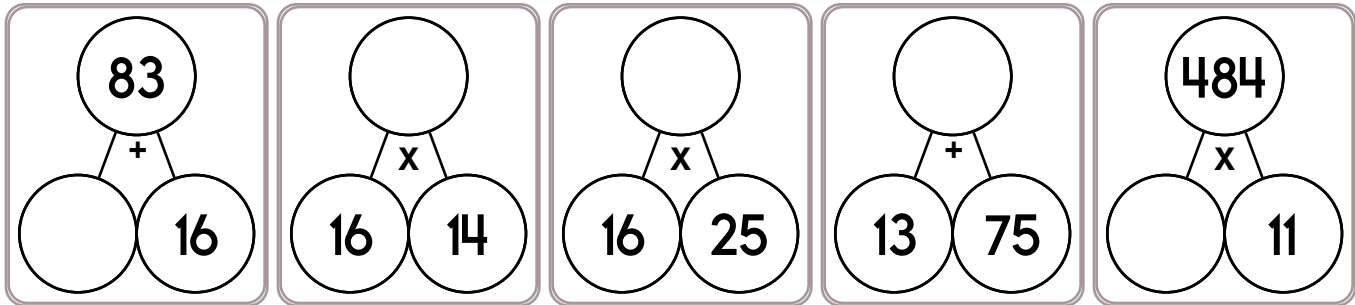
$7 \times \_\_ = 14$

$\_\_ \times 9 = 99$

$4 \times \_\_ = 28$



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



What is the greatest common factor of the numbers 48 and 72?

$$\frac{2}{11} \times \frac{5}{8}$$

$$|-11| - s = 17$$

s =

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



$8 \div \underline{\quad} = 2$

$\underline{\quad} \div 4 = 5$

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

$\underline{\quad} \div 5 = 7$

$\underline{\quad} \div 6 = 9$

$72 \div \underline{\quad} = 8$

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

$64 \div \underline{\quad} = 8$

$56 \div \underline{\quad} = 8$

$\underline{\quad} \div 7 = 5$

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

$\underline{\quad} \div 2 = 3$



$68 - 5 =$

$28 - 8 =$

$42 - 6 =$

$62 - 9 =$

$97 - 4 =$

$34 - 9 =$

$62 - 9 =$

$61 - 2 =$

$20 - 3 =$

$29 - 7 =$

$41 - 6 =$

$44 - 4 =$

$$\begin{array}{r} 75 \\ - \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ - \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ - \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ - \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 52 \\ - \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - \quad 8 \\ \hline \end{array}$$

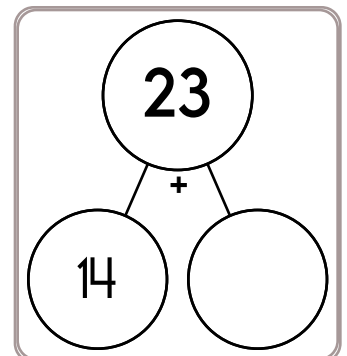
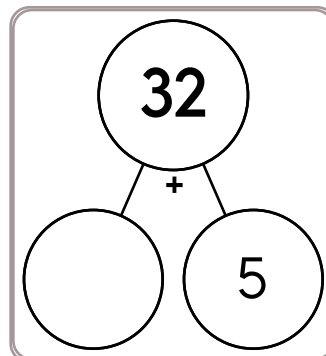
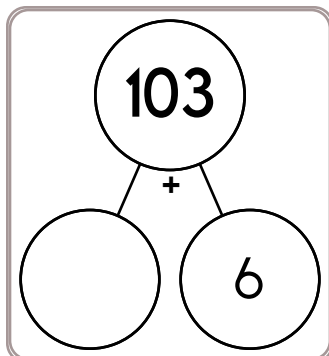
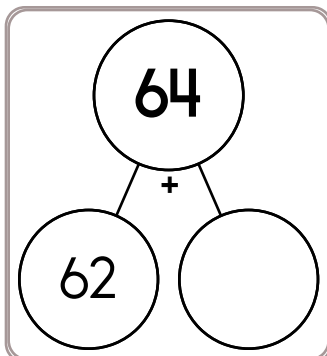
$$\begin{array}{r} 38 \\ - \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 96 \\ - \quad 4 \\ \hline \end{array}$$

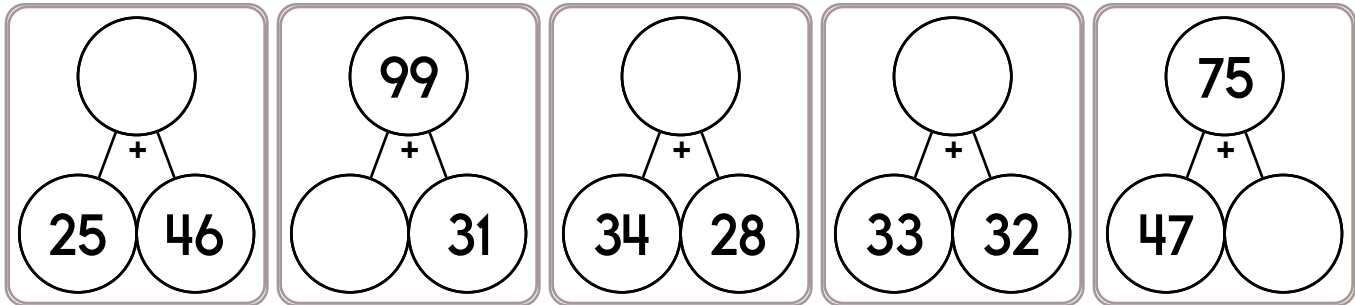
$$\begin{array}{r} 14 \\ - \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 91 \\ - \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - \quad 5 \\ \hline \end{array}$$



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



$$2y = 20$$

$$\frac{N}{8} = 12$$

$$\frac{N}{28} = 34$$

$$6 + 7 \cdot 12 + 8$$

$$3 + 64 \div 8 - 18 \div 3 =$$

Rewrite  $\frac{21}{25}$  as a decimal.

D, D, L, \_\_\_\_\_, D, L,  
D, D, L, D, D, L

In what quadrant would  
you find the point  $(-10, 4)$ ?

$$\frac{n}{4} + \frac{1}{8} = \frac{7}{8}$$

$n =$

If  $m = 6$  and  $h = -5$   
then what is  $m^2 - h^2$ ?

$$2 + (108 \div 9) - 80 \div 10 =$$

$$0.8 (0.2 (0.8 \times 5)) =$$

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

Cross off the number that does NOT belong.

(2,097,152) , (524,288) , (131,072) , (32,768) ,  
(8,192) , (2,048) , (512) , (128) ,  
(32) , (30) , (8)

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

Cross off the number that does NOT belong.

89854, 89854, 98548, 85489, 54898, 48985, 89854, 98548,  
85489, 54898, 48985, 89854, 98548, 85489, 54898

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



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

<p>Erin is going to a party. She has procrastinated getting ready all day. Now it is 5:12 p.m., and the party begins at 6:00 p.m. It will take her 35 minutes to shower, 14 minutes to get dressed, 17 minutes to do her hair, and 25 minutes to get to the party. What time will she arrive?</p>	<p>Jacob had nine birdfeeders in his yard. In the wintertime he kept the feeders full because it was harder for the birds to find food. To keep the feeders full, he used 1.2 pounds of wild bird food per day. How many pounds of wild bird food will he need to keep the feeders full for four weeks?</p>	<p>Rose arranged 10 packages of Jell-O into a "T" shape 4 boxes high and 6 boxes wide. Each box measures 4 inches by <math>2\frac{1}{2}</math> inches. What is the total surface area of the "T" shape?</p>
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<p>Rewrite these in increasing order of length: 174 km, 62 dm, 2 mm, 677 cm</p>	<p><math>28 \div 7 =</math> _____</p>	<p><math>30 \div 5 =</math> _____</p>
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<p><math display="block">\begin{array}{r} 97 \\ - 73 \\ \hline \end{array}</math></p>	<p>Emily went to a restaurant. Her bill was \$19. She wanted to give the food server a 20% tip. The tip came to \$3.80. Today her family went out. The bill was \$48. If her family wants to give the same 20% tip, how much will the tip be?</p>	<p><math display="block">\begin{array}{r} 616 \\ - 283 \\ \hline \end{array}</math></p>
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Name: \_\_\_\_\_

What number is halfway between 28 and 47?	$5 \times 5 =$ _____	$7 \times 12 =$ _____	$\begin{array}{r} 38 \\ + 26 \\ \hline \end{array}$

Can 902 be evenly divided by 11? Circle: 902 is NOT evenly divisible by 11 902 is evenly divisible by 11	$5,866 + 8,298 =$ _____	
	$72 \div 12 =$ _____	
	$55 \div 11 =$ _____	

The equation $34 \div 17 + 8 = 10$ uses three different numbers and two different equations. Make up your own equation which also has three different numbers and two different equations. The answer to your equation needs to be 46.	$\begin{array}{r} 212 \\ + 300 \\ \hline \end{array}$	$60 \div 5 =$ _____
		$25 \div 5 =$ _____

How many inches are in 2 feet?		Rose likes to change numbers into a secret letter form. Rose changed the number 92 to QQ. Rose changed the number 84,325 to QQQQQQ. Rose changed the number 495,792 to QQQQQQQ. Rose changed the number 617 to QQQ. How do you think she would change the number 8,578? _____
_____ inches		
$72 \div 6 =$	$9 \times 7 =$ _____	

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

Fill in the missing operations to complete this equation:

$$16 \quad \_\_\_\_ \quad 8 \quad \_\_\_\_ \quad 49 = 51$$

$$12 \div 6 = \_\_\_\_\_\_$$

$$587 + 866 = \_\_\_\_\_\_$$

$$11 \text{ lb} = \_\_\_\_\_\_ \text{ oz}$$

$$3 \times 12 = \_\_\_\_\_\_$$

Four fancy pens cost \$20. At that rate, what is the cost of 8 fancy pens?

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

$$22 \text{ kg} = \_\_\_\_\_\_ \text{ g}$$

Jenna and Amanda are playing a number game. Jenna says 4. Amanda replies that the answer is 12. Jenna says 5. Amanda replies that the answer is 13. Jenna says 8. Amanda replies that the answer is 16. Jenna says 7. Amanda is thinking. What number should Amanda reply with?

$$32 \div 8 = \_\_\_\_\_\_$$

$$4 \div 2 = \_\_\_\_\_\_$$

Here is a pattern of letters:

H H S H H S H H . . .

What letter will be the 22th term in the pattern?

Can 764 be evenly divided by 12? Circle:

764 is evenly divisible by 12

764 is NOT evenly divisible by 12

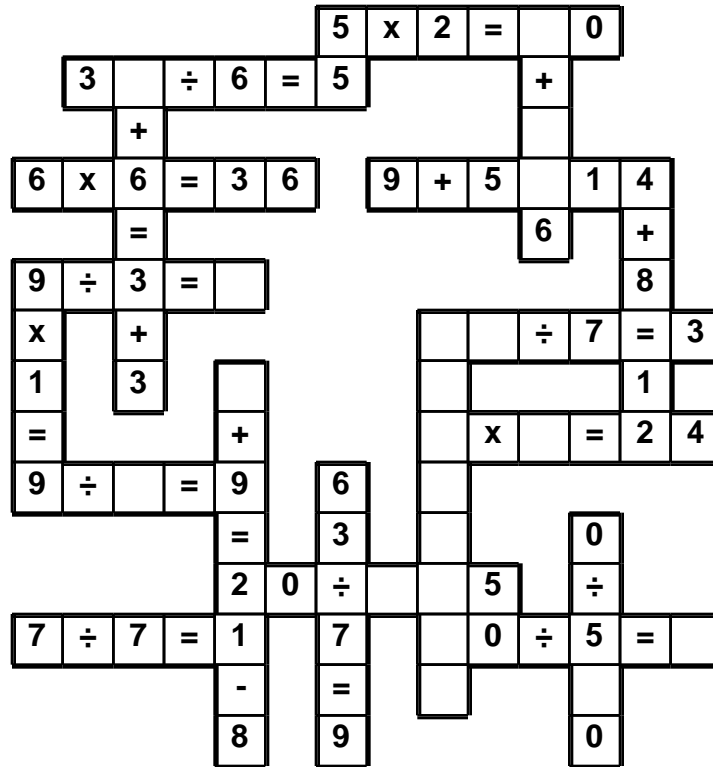
$$9 \times 8 = \_\_\_\_\_\_$$

$$3 \times 5 = \_\_\_\_\_\_$$

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

1 • 0 • 5 • = • 3 • 2 • 1 • 4 • + • 8 • 3 • 1 • + • 8 • 4 • = • 1  
2 • 8 • =

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



### 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.

Make a Word

Sum

1 2 4 6 8 14 20  
T U R K E Y

21

1 2 4 6 12  
T I

1 2 4 6 10  
E

Make a Word

Sum

1 4 8 14  
S L E

1 2 4 6 12 18  
M E

1 2 4 6 10 14  
T O

word root **equi** can mean **equal or same**

**equation, equilateral**

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

$$\begin{array}{c} \bigcirc \\ \diagup \quad \diagdown \\ \bigcirc \quad + \quad 9\frac{1}{2} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \diagup \quad \diagdown \\ \frac{1}{5} \quad + \quad \frac{2}{3} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \diagup \quad \diagdown \\ \bigcirc \quad + \quad \frac{1}{2} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \diagup \quad \diagdown \\ \frac{3}{4} \quad + \quad \frac{1}{2} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \diagup \quad \diagdown \\ \frac{2}{5} \quad + \quad \frac{3}{10} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \diagup \quad \diagdown \\ \frac{1}{4} \quad + \quad \bigcirc \end{array}$$

$$\begin{array}{c} \bigcirc \\ \diagup \quad \diagdown \\ \frac{1}{2} \quad + \quad \bigcirc \end{array}$$

$$\begin{array}{c} \bigcirc \\ \diagup \quad \diagdown \\ \frac{1}{2} \quad + \quad \frac{3}{4} \end{array}$$

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

What is the number that is  
7 less than 2?

$$7 - 5 = \underline{\quad}$$

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

$$7 + -5 = \underline{\quad}$$

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

Rewrite  $14 - 7$

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

On a number line, what is  
the number that is 6  
spaces right of -4?

Rewrite  $18 + -7$

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

$$15 + -6 = \underline{\quad}$$

$$16 - 12 = \underline{\quad}$$

$$8 - 11 =$$

$$15 - 6 = \underline{\quad}$$

$$16 + -12 = \underline{\quad}$$

Rewrite  $19 - 7$

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

On a number line, what is  
the number that is 3 to the  
left of 2?

$$19 + -14 = \underline{\quad}$$

$$19 - 14 = \underline{\quad}$$

Rewrite  $18 + -4$

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

$$8 - 14 =$$

What is the number that is  
5 less than 3?

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

What is the greatest common factor of 9 and 6?

$$36 - m = 25$$

What is the greatest common factor of 8 and 12?

$$n + 18 = 24$$

What is the least common multiple of 2 and 5?

What is the greatest common factor of 12, 28, and 20?

$$m + 26 = 34$$

What is the greatest common factor of 20 and 16?

What is the least common multiple of 7, 16, and 26?

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

What is the missing number?

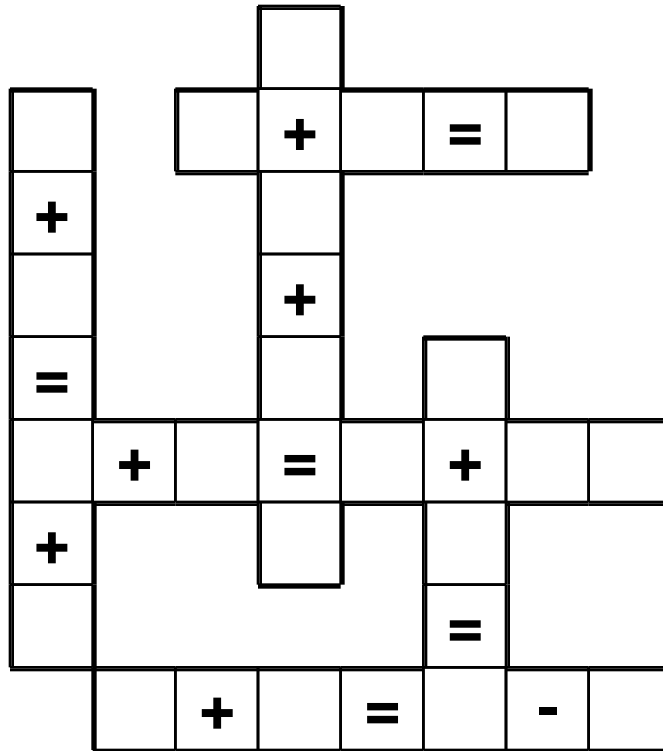
$$17 - x = 3$$

What is the least common multiple of 9 and 6?

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

0 • 7 • 5 • 1 • 6 • 0 • 1 • 5 • 0 • 6 • 4 • 0 • 1 • 0 • 5 • 8 • 2  
3 • 2 • 8 • 3

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



Write as a decimal.  
Thirteen hundredths

Write as a decimal.  
Seventeen and three hundredths

Write as a decimal.

$$\frac{9}{10}$$

$$|-59| + |42| =$$

$$0.9 (0.4 (0.9 \times 3)) =$$

Rewrite  $\frac{1}{100}$  as a decimal.



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

A total of 100 jars of mustard were divided into 10 boxes. In each box, there were 2 jars of Dijon mustard. The rest of the jars contained yellow mustard. How many jars of yellow mustard were there in all?

When the notary public asked Maria her age, Maria answered, "I am twice as old as my sister Amy. Amy is one-fifth as old as my father. My father is seventy years old." How old is Maria?

Mr. Rodriguez wanted to go to his wife's office, but he forgot her office number. He knew that it was a number less than 116. It had 3 digits and it was a prime number. What are the possible office numbers for his wife?

To reach his potential, Jack wants to increase his running speed by  $\frac{2}{3}$  mile/hour. If he increases his speed at the rate of  $\frac{1}{8}$  mile/hour each month, how long will it take him to reach his potential?

$$11 \times 5 = \underline{\hspace{2cm}}$$

You can buy 2 books for \$10 at the store. At this rate, what would be the cost of eight books?

$$30 \div 10 = \underline{\hspace{2cm}}$$

$$668 - 579 = \underline{\hspace{2cm}}$$

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

This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.

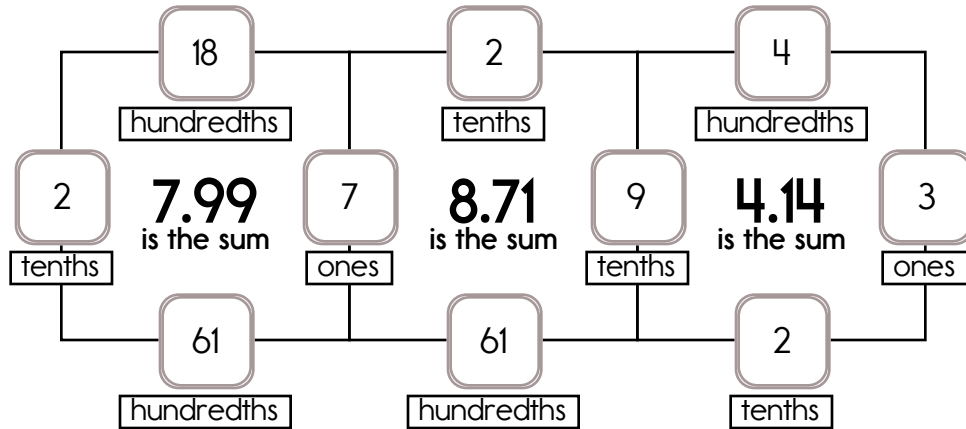
Example:

$$0.2 + 7 + 0.18 + 0.61 = 7.99$$

Example:

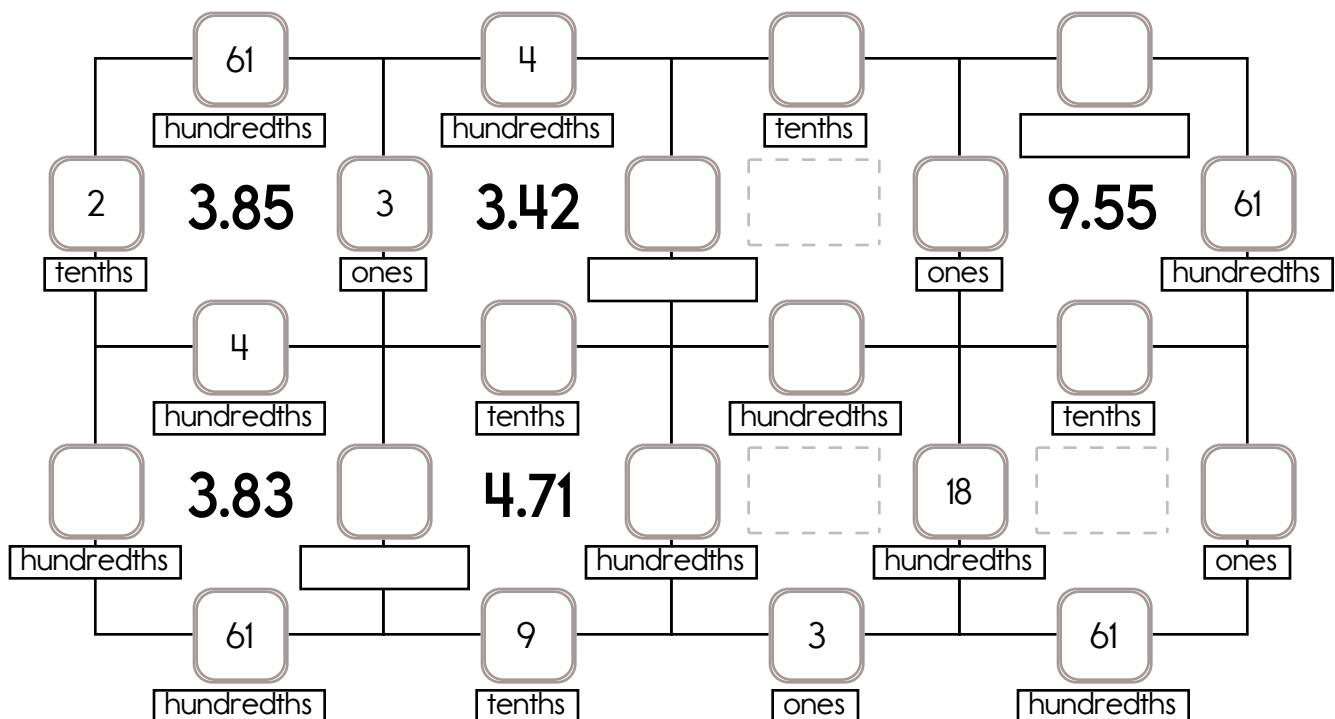
$$0.9 + 3 + 0.04 + 0.2 = 4.14$$

Sample:



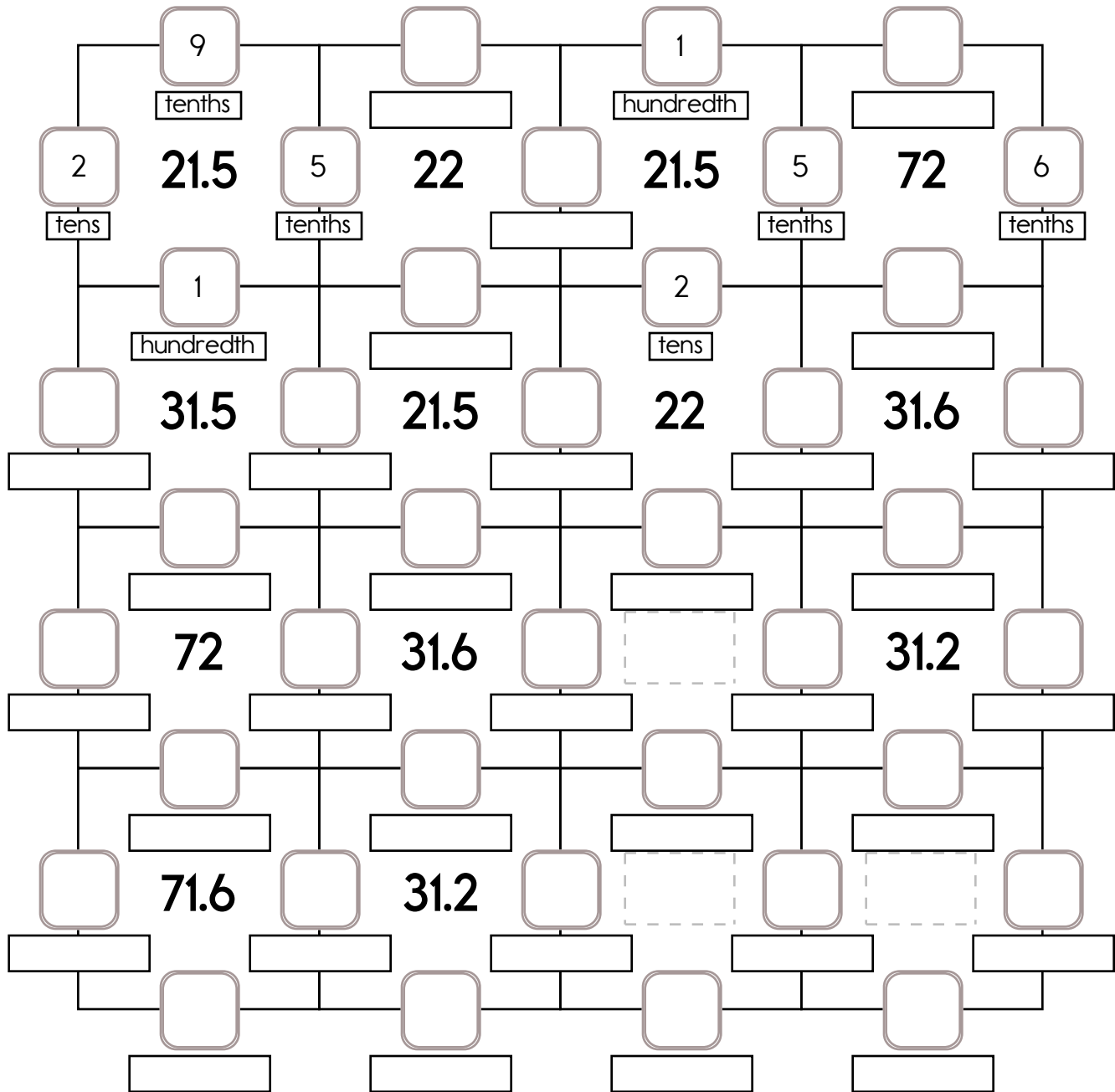
Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: 3 ones, 8 ones, 2 ones, 7 ones, or 5 ones.

The other three numbers have to all be DIFFERENT and must be from these: 9 tenths, 18 hundredths, 2 tenths, 4 hundredths, or 61 hundredths.



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

Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: 2 tens, 3 tens, or 7 tens. The other three numbers have to all be DIFFERENT and must be from these: 6 tenths, 1 hundredth, 9 tenths, or 5 tenths.



10 x 2 =

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

Fill in the missing numbers.

Only rule - The same number CAN NOT be next to each other, in ANY direction.

Dark lines surround a block. Numbers to use in a block:

A block with 1 space has to be the number 1.

A block with 2 spaces must have the numbers 1 and 2.

A block with 3 spaces must have the numbers 1, 2, and 3.

A block with 4 spaces must have the numbers 1, 2, 3, and 4.

1	3	1	2			1
4	2	4			3	4
1	3	1	2	1	2	1

An entire block with 4 spaces is blank. Since the block is 4 spaces it uses the numbers 1-4.

2 4 3 1

2	3		3	2	4	1
1	4			1	3	2
2	3	1		2	4	1

An entire block with 4 spaces is blank. Since the block is 4 spaces it uses the numbers 1-4.

1 3 4 2

	3	2		1	4	
2	4	1	4	2		1
	3		3		4	2
2		1	4	2		1

Hint - These numbers are missing:

4 2 3 1 1 3 1 2 3

1			3	1	4	1
2		2		2	3	
1	4		3		4	1
	3	2	4	2	3	

Hint - These numbers are missing:

3 2 1 2 4 1 1 2 4

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

Fill in the missing numbers.

1		2		1	3	1
2	4			2	4	
	3	2		1		1
2	4		3	2	4	

Hint - These numbers are missing:

2 1 2 3 3  
1 4 1 3 4

1		2		1	4	
	4				3	1
1		2			4	2
2	4	1	4			1

Hint - These numbers are missing:

3 4 2 3 1 1  
3 3 3 2 2 2

			4		
1	4	1		1	3
2	3	2	4	2	
		1		1	3

Hint - These numbers are missing:

3 3 4 2 2  
3 4 1 2 4

2		2	1		1
4		4			3
	1			2	1
3	4	3	4		

Hint - These numbers are missing:

4 1 3 3 3  
4 2 2 1 2

$3 \times 2 =$  \_\_\_\_\_

$28 \div 7 =$  \_\_\_\_\_


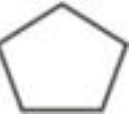





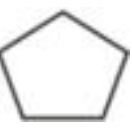

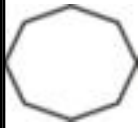



$(5 + 4) + 3 =$  \_\_\_\_\_

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

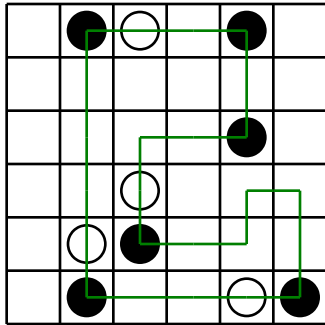
Each row, column, and box must have the numbers 1 through 6. The first box is done.

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

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

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

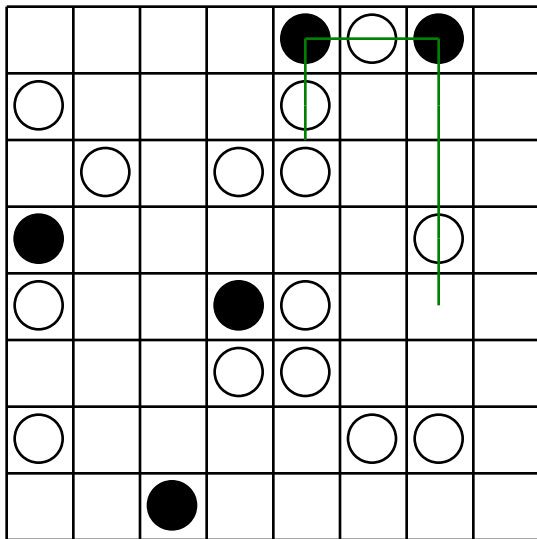


Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn.

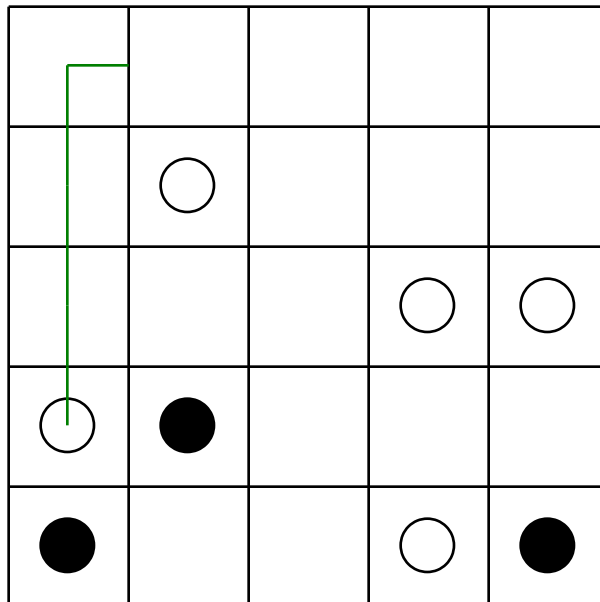
You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

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

Finish the line:



Finish the line:



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

Write the missing family fact.

$$16 \times 10 = 160$$

$$10 \times 16 = 160$$

$$160 \div 10 = 16$$

$$63 \div 9 = \underline{\hspace{2cm}}$$



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