

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

$$3 + 8 \times 9 + 4$$

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

$$\frac{1}{2} \text{ — } 62\%$$

$$\frac{3}{4} \text{ — } 65\%$$

$$79\% \text{ — } \frac{2}{9}$$

$$0.3 (0.4 (0.3 + 4)) =$$

A circle graph has four sections. Only three sections are labeled. The labels are 7%, 41%, and 6%. What should the missing section be?

$$0.3 \times 0.2$$

What is the prime factorization of 27?

$$7 \times 40 \div 8$$

If  $a = 6$  and  $b = 7$ ,  
 then  
 $3a + b =$

Circle the percentage that is closest to 13 out of 60:

82%

29%

47%

12%

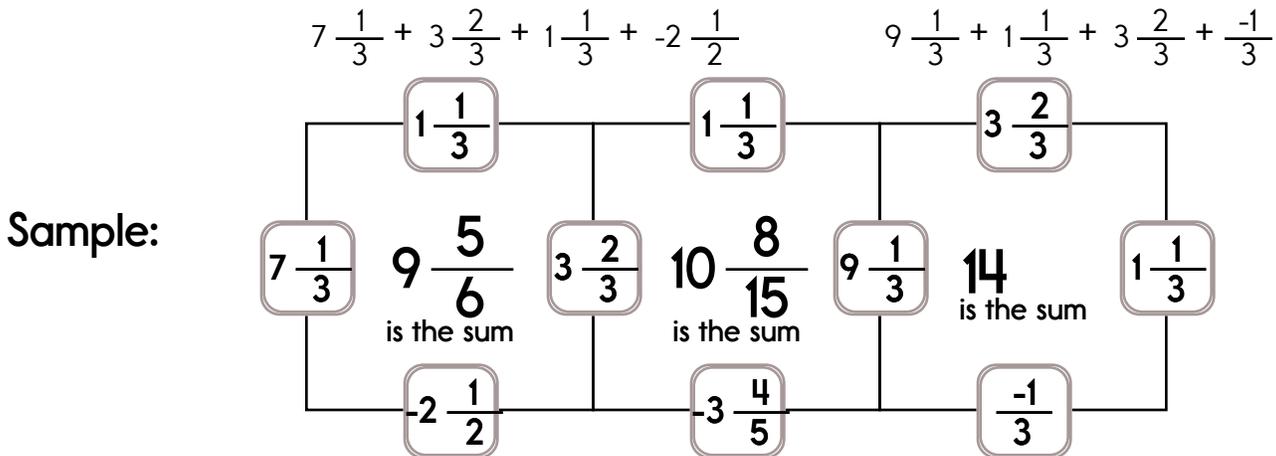
6,  $5\frac{2}{3}$ ,  $5\frac{1}{3}$ , 5,  $4\frac{2}{3}$ ,  
 $4\frac{1}{3}$ , 4, \_\_\_\_\_,  $3\frac{1}{3}$ ,  
 3,  $2\frac{2}{3}$ ,  $2\frac{1}{3}$ , 2,  $1\frac{2}{3}$ ,  
 $1\frac{1}{3}$ , 1,  $\frac{2}{3}$

If  $4x = 68$ , then  $x =$

$$0.19 \cdot 4 =$$

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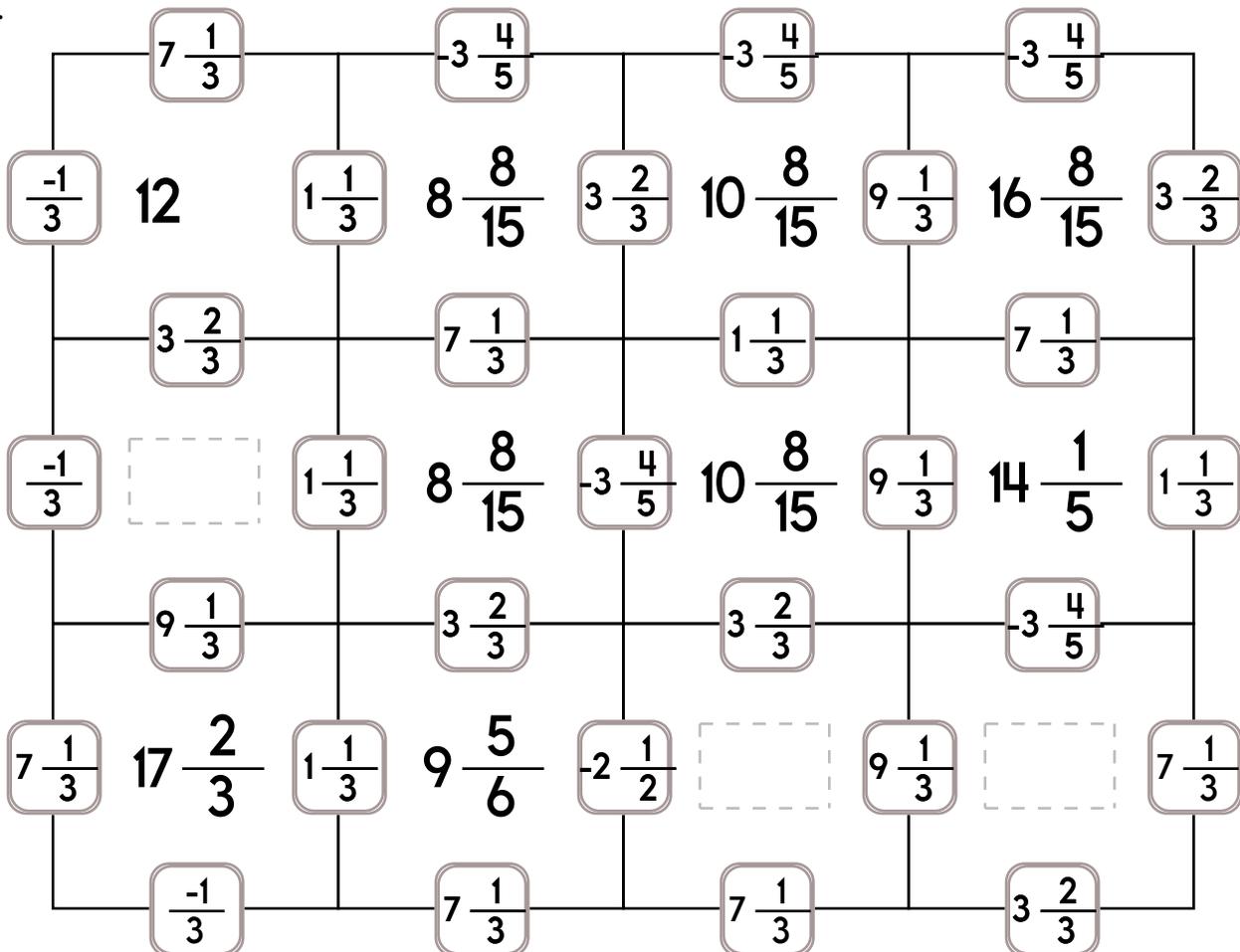
This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.



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:  $\frac{-1}{3}$ ,  $-3\frac{4}{5}$ , or  $-2\frac{1}{2}$ .

The other three numbers have to all be DIFFERENT and must be from these:  $3\frac{2}{3}$ ,  $7\frac{1}{3}$ ,  $1\frac{1}{3}$ , or  $9\frac{1}{3}$ .



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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:  $-2\frac{1}{2}$ ,  $-1\frac{3}{4}$ , or  $-3\frac{2}{9}$ .

The other three numbers have to all be DIFFERENT and must be from these:  $8\frac{1}{2}$ ,  $9\frac{1}{2}$ ,  $6\frac{1}{2}$ , or  $\frac{1}{2}$ .

	$\frac{1}{2}$		$-3\frac{2}{9}$		$6\frac{1}{2}$		$-1\frac{3}{4}$	
$-3\frac{2}{9}$	<b>13</b>	$6\frac{1}{2}$	<b>12</b>	$8\frac{1}{2}$	<b>13</b>	$\frac{1}{2}$	<b>14</b>	$6\frac{1}{2}$
	$9\frac{1}{2}$		$\frac{1}{2}$		$-2\frac{1}{2}$		$9\frac{1}{2}$	
$-2\frac{1}{2}$	<b>22</b>	$6\frac{1}{2}$	<b>13</b>	$8\frac{1}{2}$	<b>13</b>	$\frac{1}{2}$	<b>16</b>	$-2\frac{1}{2}$
	$8\frac{1}{2}$		$-1\frac{3}{4}$		$6\frac{1}{2}$		$8\frac{1}{2}$	
$6\frac{1}{2}$	<b>22</b>	$9\frac{1}{2}$	<b>16</b>	$\frac{1}{2}$	<b>14</b>	$-2\frac{1}{2}$	<b>13</b>	$6\frac{1}{2}$
	$-2\frac{1}{2}$		$8\frac{1}{2}$		$9\frac{1}{2}$		$\frac{1}{2}$	
$6\frac{1}{2}$	<b>14</b>	$\frac{1}{2}$	<b>13</b>	$-2\frac{1}{2}$	<b>22</b>	$6\frac{1}{2}$		$8\frac{1}{2}$
	$9\frac{1}{2}$		$6\frac{1}{2}$		$8\frac{1}{2}$		$-1\frac{3}{4}$	
$\frac{1}{2}$	<b>16</b>	$-2\frac{1}{2}$	<b>14</b>	$\frac{1}{2}$		$6\frac{1}{2}$		$9\frac{1}{2}$
	$8\frac{1}{2}$		$9\frac{1}{2}$		$-2\frac{1}{2}$		$\frac{1}{2}$	

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

Houdini once said, "My brain is the key that sets me free." Jason made a banner for the school library exhibit of Houdini books and pictures with that sentence on it. If each letter, punctuation mark, and space takes up 2.2 inches on the banner and there is 4.5 inches of blank space at both the beginning and end of the banner, how long will the banner be?

Mr. Young is getting married soon. He is buying ties and tie tacks for his groomsmen. The ties cost \$42.84 each, and a tie tack costs \$75. The store will wrap the packages for \$3.75 each. He will have 5 groomsmen. How much will he spend on the gifts?

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

$$\frac{??}{60} = \frac{25}{100}$$

In each group, use 4 of the numbers to make a proportion.

23      4      2      12      24      13

28      112      35      40      20      64

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Fill in the missing numbers.

$$18 - (-5) = \underline{\hspace{2cm}}$$

$$23 - (\underline{\hspace{2cm}}) = 32$$

$$\underline{\hspace{2cm}} + (-4) = 12$$

$$-15 - (-8) = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} - (-2) = -17$$

$$\underline{\hspace{2cm}} + (-6) = -28$$

$$\begin{array}{r} 0.4 \\ -0.25 \\ \hline \end{array}$$

What is the sum of 19.8 and 9.5?

Find the difference between 28.6 and 21.9.

How much money is 1 quarter, 1 dime, 4 nickels, and 1 penny?

Pick the family fact that is missing.

$$14 \times 4 = 56$$

$$56 \div 14 = 4$$

$$4 \times 14 = 56$$

50, 60, 70, 80, 90, 100,

110, \_\_\_\_\_, 130, 140

$$788 - 332 = \underline{\hspace{2cm}}$$

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

$$10 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$$

$$12 \times 3 = \underline{\hspace{2cm}}$$

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Write each as a decimal.

2 thousandths as a decimal is \_\_\_\_\_

39.7% as a decimal is \_\_\_\_\_

16% as a decimal is \_\_\_\_\_

$5\frac{5}{10}$  as a decimal is \_\_\_\_\_

How many centimeters in  
3.9 meters?

$$38 + n = 56$$

What is the value of n?

The perimeter of a  
rectangle is 14 cm. The  
longer side is 5 cm. How  
long is the shorter side?

D, K, E, M, F, O, G, Q, H,  
\_\_\_\_\_, I, U

It's 11:00 a.m. Rose has  
soccer practice today. If  
practice starts at 3:30 p.m.,  
then how much longer until  
soccer starts?

Draw a number line  
with 0,  $\frac{1}{2}$ , and 1. Show  
where  $\frac{5}{11}$  would go. Is  
 $\frac{5}{11}$  closer to 0,  $\frac{1}{2}$ , or 1?

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<p>Mary is drawing a mural of the night sky on black poster board with white chalk. If she uses up a stick of chalk at the rate of one stick every thirteen minutes, and she works on her mural from 7:37 a.m. until 10:26 a.m., how many sticks of chalk will she use?</p>	<p>Mr. Jackson has a truck garden and raises a variety of vegetables. Last year he used 12.6 acres of his land for squash. He planted zucchini on 4.03 acres of that land. How much land was left for other kinds of squash?</p>	<p>The average person in the United States consumes 4.8 kg of chocolate every year. David eats 3 oz of chocolate every day. How many more pounds of chocolate per year does David eat than the average? (1 kg = 2.2 lb)</p>
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<p>The equation <math>7 + 25 - 18 = 14</math> 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 10.</p>	<p>Wendy rolls a die. What is the chance of her rolling a 2?                  _____</p> <p><math>32 \div 4 =</math> _____</p> <p><math>6 \times 8 =</math> _____</p>
--	--

<p>What time is 15 hours after 3:00 p.m.?                  _____</p>	<p><math>11 \times 12 =</math> _____</p>	<p>9 km = _____ m</p>
--	--	-----------------------

<p><math>10 \times 8 =</math> _____</p>	<p>How many feet are in 6 yards?                  _____ feet</p>	<p><math>36 \div 12 =</math> _____</p>
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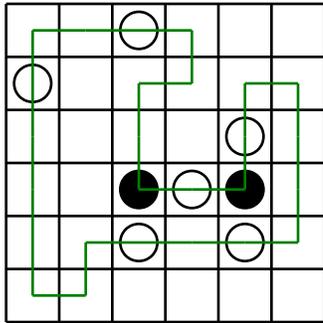
$\begin{array}{r} 990 \\ - 125 \\ \hline \end{array}$	<p>Can 431 be evenly divided by 7? Circle: 431 is evenly divisible by 7 431 is NOT evenly divisible by 7</p>	$7 \times 2 = \underline{\hspace{2cm}}$
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<p>Write the numbers 15 to 45 on a sheet of paper. How many of these numbers are divisible by 3? _____</p>	<p>Wendy likes to change numbers into a secret letter form. Wendy changed the number 237,551 to QQQQQQ. Wendy changed the number 58,166 to QQQQQ. Wendy changed the number 6,925 to QQQQ. Wendy changed the number 57 to QQ. How do you think she would change the number 428? _____</p>	$49 \div 7 = \underline{\hspace{2cm}}$
--	--	--

<p>Write an equation to represent this: The product of eight and five is forty. _____</p>	$\begin{array}{r} 206 \\ + 387 \\ \hline \end{array}$	$48 \div 6 = \underline{\hspace{2cm}}$
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$\begin{array}{r} 30 \\ + 44 \\ \hline \end{array}$	<p>The product of two consecutive whole numbers is 156. What are the two consecutive whole numbers?</p>	$\begin{array}{r} 99 \\ - 28 \\ \hline \end{array}$	$8 \times 7 =$
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Name: \_\_\_\_\_

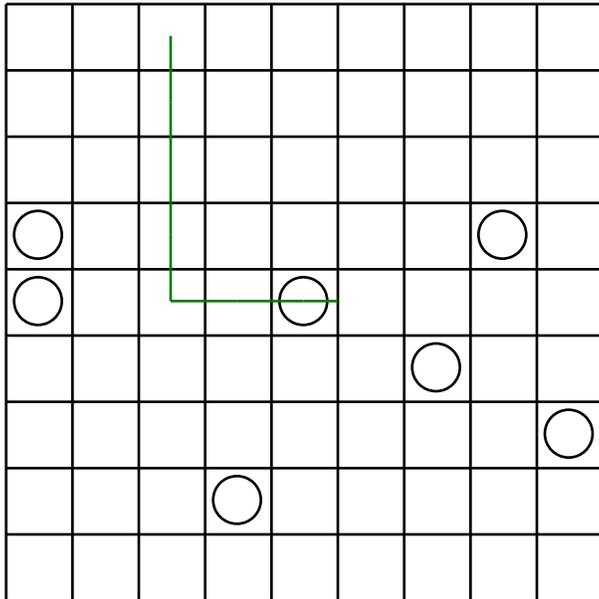


Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn.

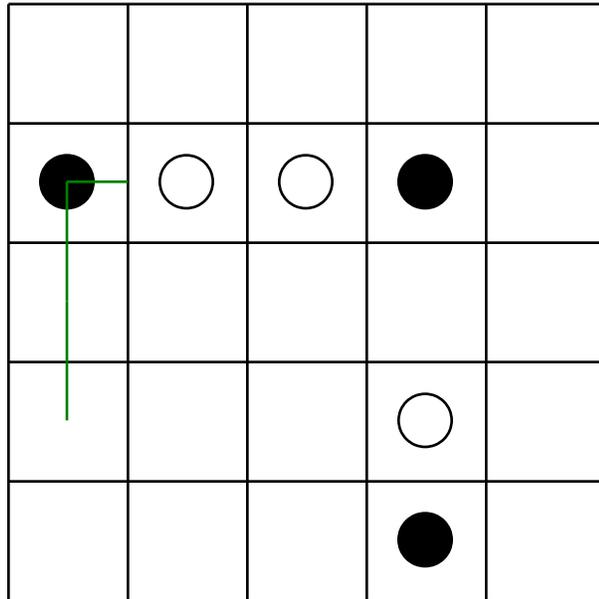
You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

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

Finish the line:



Finish the line:



$8 \times 11 = \underline{\hspace{2cm}}$

$7 \times 3 = \underline{\hspace{2cm}}$

$5 \times 8 = \underline{\hspace{2cm}}$

Peter has two pennies, two nickels, and one dime. He also has one other coin that is different from the rest of his coins. How much could he have?

$77 \div 7 = \underline{\hspace{2cm}}$

$11 \times 10 = \underline{\hspace{2cm}}$

Circle the digit in the tenths place.

87.4814

$36 \div 3 = \underline{\hspace{2cm}}$

What number is halfway between 12 and 24?

$4 \times 11 = \underline{\hspace{2cm}}$

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4 • 2 • 2 • 6 • 4 • = • ÷ • 9 • 4 • 8 • = • 2 • 0 • 6 • 8 • 5  
3 • 4 • 0 • =

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

The puzzle grid contains the following elements:

- Top horizontal: 7 x 9 = 63
- Vertical (top): x, =, 3 5, 0, 4
- Vertical (right): 4, ÷, 1, =, 4
- Vertical (middle): 9, x, 8, =, 0
- Vertical (left): 7, 2, ÷, =, 9
- Horizontal (middle): x 9 = 7 2, x 1 = 9, 2
- Horizontal (bottom): =, x 5 = 1, 0
- Vertical (bottom): 1, 7, 3 x = 2 4, 1, x, 8 x = 2, 5 7, ÷, 9, 3
- Horizontal (bottom): 3 0 ÷ 6 = 5

$2 \times 9 =$  \_\_\_\_\_

Circle the greatest number:

- 17,326
- 9,628,047,384
- 457,182,039
- 870,263,594,151

For 9,680,450,407,272,489,  
write the digit that is in the  
ten thousands place.

\_\_\_\_\_

$982 - 329 =$  \_\_\_\_\_

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Find the way from START to END by passing through EVERY number that is a multiple of twelve exactly ONCE. Cross off each box that is NOT a multiple of twelve. Yes, that means you have to go through ALL the multiple of twelve boxes. Wow!

You are not allowed to go diagonally. Good luck!

START	871	630	80	60	912	120
540	684	408	444	432	96	720
600	120	384	984	312	816	528
108	840	348	888	48	168	324
552	504	446	27	84	816	207
588	411	284	635	886	974	378
636	792	398	84	840	11	565
712	276	788	972	768	60	864
891	300	432	204	996	683	516
77	279	792	612	168	393	END

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

Ava is three years older than Justin. If Justin is  $m$  years old, then how old is Ava?

Find the sum of their ages in terms of  $m$ .

Factor each expression.

$$9z + 45$$

$$6s - 54$$

$$13k + 60 - 5k - 12$$

$$11r + 75 - 4r - 26$$

Expand and simplify.

$$23 + 10k - 10 + 4(+1k)$$

$$9(7s + 17) + 6(9s + 6)$$

$$2(19 + 4y) + 3(+1y)$$

Sarah has six unused gift cards. Each gift card has the same amount of money on it. If each card has  $m$  dollars on it, how much money in gift cards does she have?

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$2 + -5 =$

$-48 \div 6 =$

$-8 + 2 =$

$-11 - 12 =$

$-3 + -4 =$

$-9 + -6 =$

$-8 \times -1 =$

$-9 \times 12 =$

$7 + -8 =$

$8 + -3 =$

$-41 + 29 =$

$-5 + -4 =$

$23 + -37 =$

$-2 - 3 - 2 =$

$-10 - -2 =$

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Only use a pencil to write the numbers on the blank lines. You do not need any scrap paper! Solve it in your head. If you forget a number, then start over. Cool, huh?

# Mental Math



= Do it  
in your  
head!

imagine 8 in your head

multiply 7

add 7

Write the ones digit.

\_\_\_\_\_   
 A

imagine 3 in your head

add 9

multiply 9

add 7

Add the tens digit to the ones digit.

Write the sum.

\_\_\_\_\_   
 B

imagine 6 in your head

double it

add 8

subtract 7

subtract 8

subtract 4

Write the number.

\_\_\_\_\_   
 C

imagine 2 in your head

add 6

subtract 3

add 3

subtract 4

Write the number.

\_\_\_\_\_   
 D

What is the sum?

A + B + C + D

\_\_\_\_\_

Wow! Great job! That's the answer, but do you know how to SPELL the number?

\_\_\_\_\_ e \_\_\_\_\_ n \_\_\_\_\_

6 after 17 \_\_\_\_\_

8 before 11 \_\_\_\_\_

7 after 16 \_\_\_\_\_

4 after 12 \_\_\_\_\_

7 before 17 \_\_\_\_\_

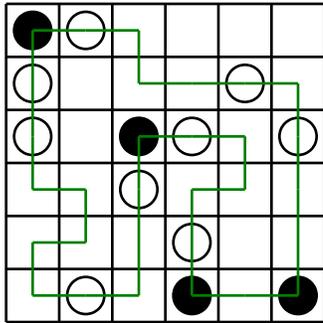
8 after 13 \_\_\_\_\_

2 after 18 \_\_\_\_\_

3 before 19 \_\_\_\_\_

3 after 11 \_\_\_\_\_

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

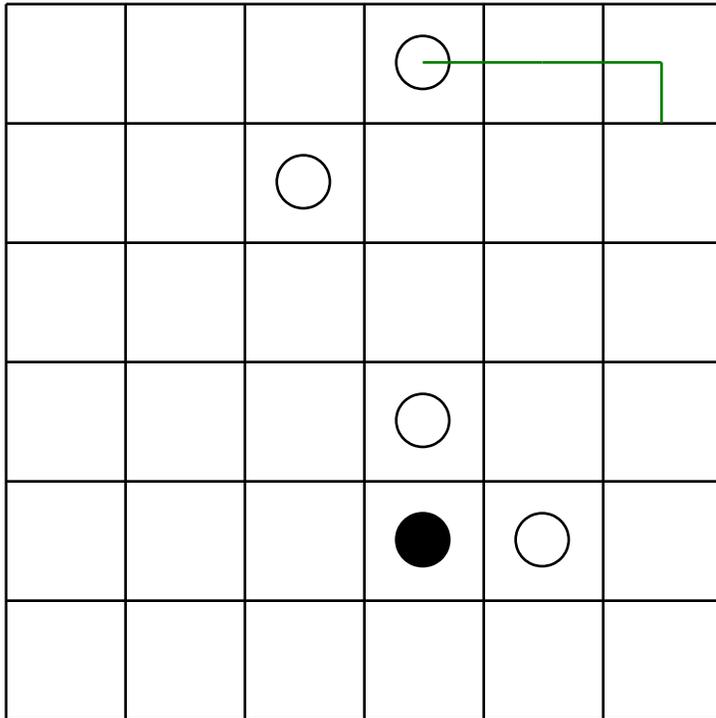


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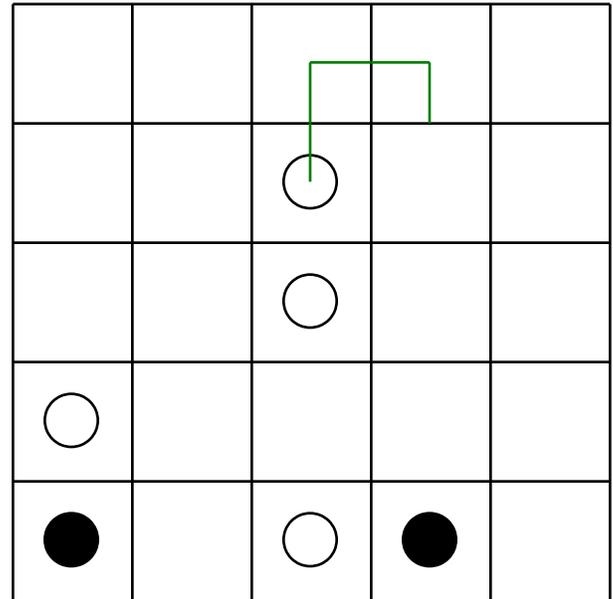
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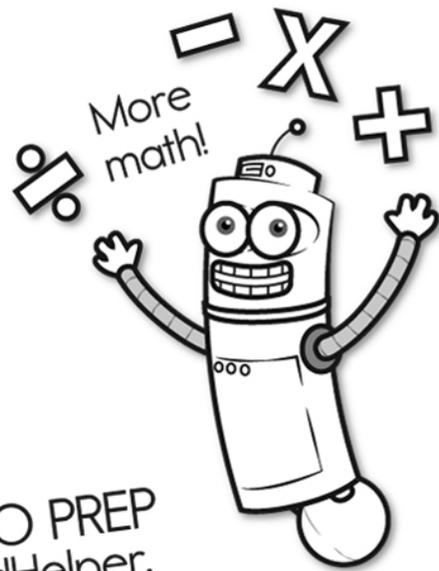
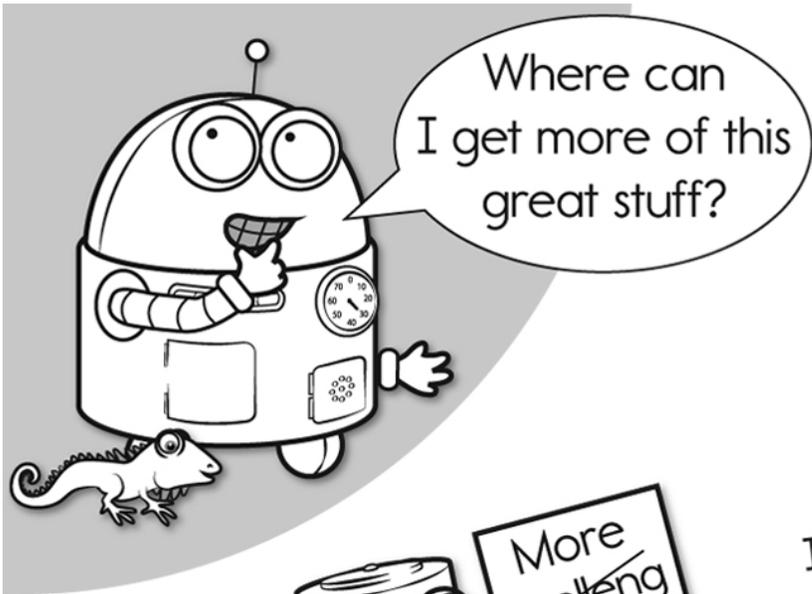


Finish the line:



Amanda makes a basket for every two attempts that she makes. Hannah needs four attempts to make a basket. Each basket is worth 2 points. If they each make 24 attempts, then what is the score?

$$311 - 231 = \underline{\hspace{2cm}}$$

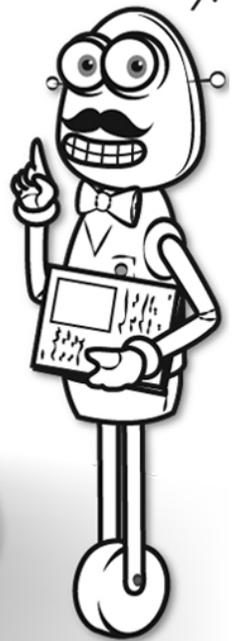


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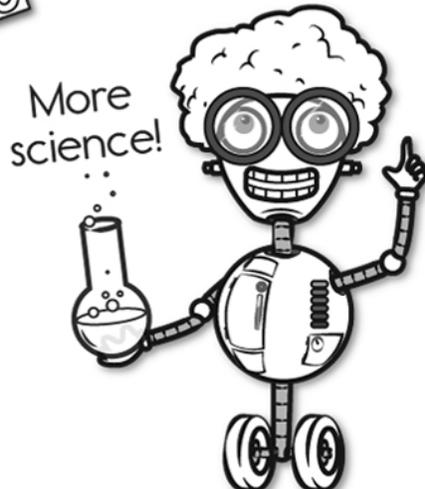
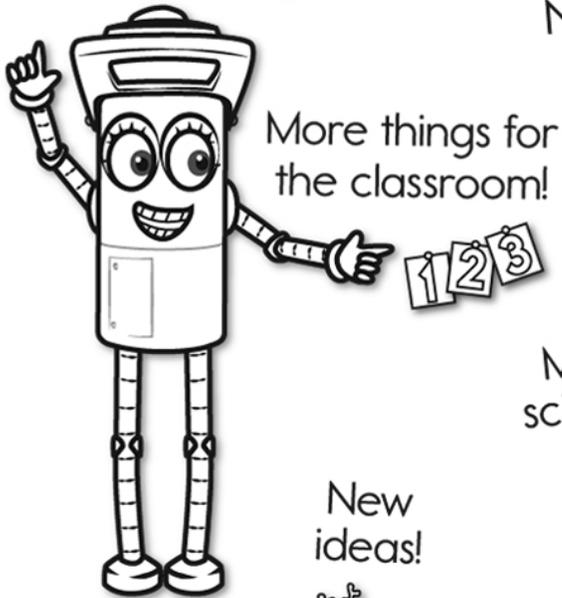
More history!



# edHelper.com!



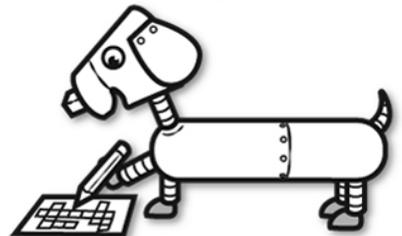
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x  
+ =  
- ÷ < - >



More puzzles!



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