

Name: _____

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 7 in your head

add 1

double it

Write the tens digit.

_____ **A**

imagine 7 in your head

double it

subtract 7

subtract 4

Write the number.

_____ **B**

imagine 7 in your head

multiply 2

subtract 9

multiply 6

subtract 6

add 4

Write the tens digit.

_____ **C**

imagine 8 in your head

multiply 4

subtract 9

subtract 7

double it

subtract 6

Add the tens digit to the ones digit.

Write the sum.

_____ **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?

_____ **u** _____ **r** _____ **t** _____

5 after 16 _____

8 before 13 _____

9 after 17 _____

7 after 14 _____

1 before 19 _____

4 after 12 _____

3 after 15 _____

9 before 18 _____

2 after 19 _____

8	3	1	2
-	0		
	3	1	
-	2	4	
		7	2
	-	7	2
			0

6	8	1	0
-			
-			
	-		

[illegible]

[illegible]

[illegible]

[illegible]

Name: _____

Jack made 12 pounds of ground beef mix. He made meatballs out of $\frac{1}{3}$ of it and cooked them with pineapple and sauce for the party. He packaged the rest of the mix in $\frac{1}{4}$ -pound packages to put in the freezer. How many packages of ground beef mix did Jack make?

Mrs. Meeks put 4 pairs of black socks, 7 pairs of white socks, and 3 pairs of red socks in the washer. If she pulls one sock out of the washer without looking, what is the probability the sock will be red? Round your answer to the nearest whole number.

Wendy can't wait for her friend to visit.

"As soon as you leave the airport, drive 42 miles to exit 5," says Wendy.

"I don't think you mean miles. They use kilometers here," says Jessica.

Help Wendy tell Jessica how many kilometers to drive. Use 1 mile = 1.6 kilometers.

$$(5 + 15) + 8 = 2(v + 12)$$

What is the value of v ?

$$9 - 28 \div 7$$

What is the remainder of 69 divided by 14?

Name: _____

The city's Freedom Memorial Garden was enclosed by a fence put up in the shape of a parallelogram with a base of 146 feet and a height of 96 feet. What was the area of the garden?

If 8 of 17 four-square courts had blue lines and the rest had white lines, what percent of the courts had white lines?

Nathan made a delicious apple spice cake for the Fall Festival. He cut each cake into 10 pieces. So far, he has sold $\frac{3}{5}$ of the cake. How many pieces has he sold?

Name: _____

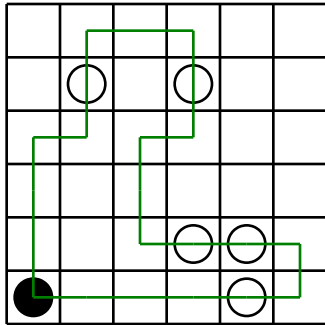
<p>Peter's great grandmother told him about the time she spent on Ellis Island. She said she and her mother and father had stood in a long line for 360 minutes. How many hours did they stand in line?</p>	<p>Holly was bored. She went to the store and bought a puzzle with 500 pieces. The puzzle cost \$7.75. She gave the clerk \$20. How much change did she get?</p>	<p>It was a beautiful spring day. Rose was amazed at all the butterflies. As a matter of fact, she had already counted 125! Of those, 20 were Monarch butterflies. What is the probability that the next butterfly she sees will be a Monarch? Write as a fraction in lowest terms.</p>
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<p>What time is 14 hours after 1:00 a.m.?</p> <p>_____</p>	<p>7,788 - 2,879 = _____</p>
--	------------------------------

$\begin{array}{r} 389 \\ + 418 \\ \hline \end{array}$	<p>Megan rolls two dice. What is the chance of her rolling a 1 on one die and a 1 on the other die?</p> <p>_____</p>	<p>Which is the better buy? Three bags of candy for \$12 or nine bags of candy for \$18?</p>
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<p>$(8 + 9) + 2 =$</p>	$\begin{array}{r} 602 \\ - 522 \\ \hline \end{array}$	<p>Emily rolls two dice. She adds the numbers on the two dice. What is the chance of this sum being nine?</p>
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Name: _____

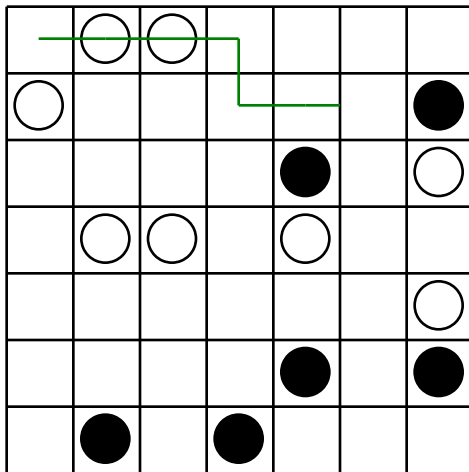


Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn.

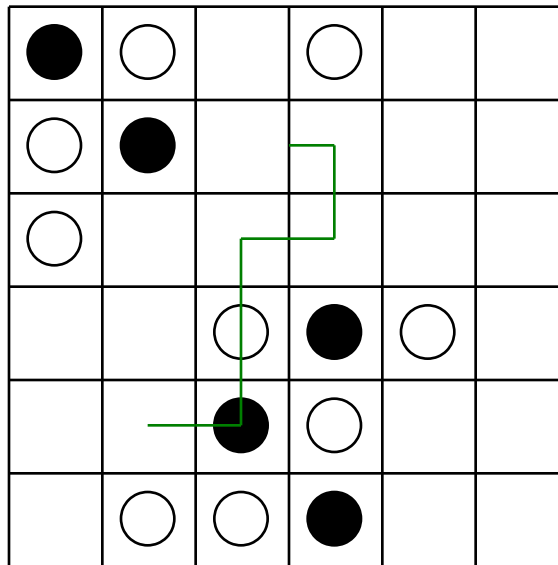
You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

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

Finish the line:



Finish the line:



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

$72 \div 6 = \underline{\hspace{2cm}}$

$6 \times 12 = \underline{\hspace{2cm}}$

$$\begin{array}{r} 28 \\ + 34 \\ \hline \end{array}$$

Can 714 be evenly divided by 3? Circle:

714 is evenly divisible by 3

714 is NOT evenly divisible by 3

$1 \text{ km} = 1,000 \text{ m}$

$25 \text{ km} = \underline{\hspace{2cm}} \text{ m}$

$$\begin{array}{r} 94 \\ - 31 \\ \hline \end{array}$$

$55 \div 5 = \underline{\hspace{2cm}}$

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

word root **pugn** can mean **fight**

pugnacious, repugnant

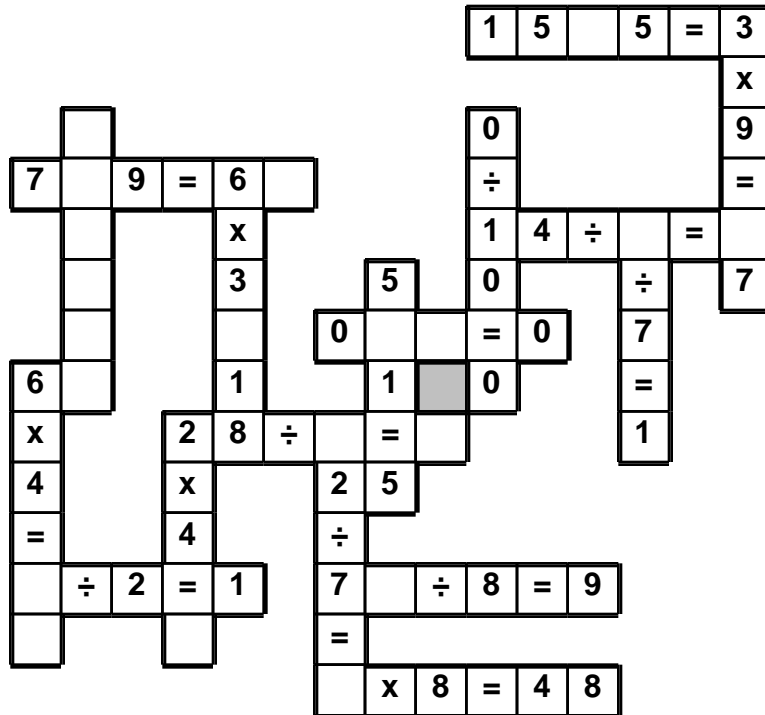
Name: _____

For 6,411,263,590, write the digit that is in the ten thousands place. _____	$817 + 795 = \underline{\hspace{2cm}}$	
$17 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$	$3 \times 9 = \underline{\hspace{2cm}}$	$88 \div 8 = \underline{\hspace{2cm}}$
$10 \times 12 = \underline{\hspace{2cm}}$	<p>Rose cannot open her locker. She knows that the three numbers are: 30, 15, and 17, but she cannot remember the order of the numbers. How many different combinations are there? List ten of them.</p>	
$50 \div 5 = \underline{\hspace{2cm}}$		
How many grams are in 6 kilograms? _____ grams		<p>The boys in your class each were given a ticket with a number on it. The numbers given out were: 1, 19, 16, 8, 34, 39, 6, and 31. One ticket will be picked from a hat. What are the chances that the winning ticket number is divisible by 3?</p>
$636 + 198 = \underline{\hspace{2cm}}$		
What number is halfway between 11 and 17?		
$72 \div 9 = \underline{\hspace{2cm}}$	$16,864 + 16,114 = \underline{\hspace{2cm}}$	

Name: _____

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

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



Circle the smallest number:

3,605
81,247,909,615
59,063
3,724,871,824

6,441 - 5,885 = _____

11 x 10 = _____

Circle the addition property
for $74 + 106 = 106 + 74$.

associative property
commutative property

48 ÷ 6 = _____

632 + 648 = _____

3 x 11 = _____

84 ÷ 12 = _____

Name: _____

Rewrite $17 + -4$

____ - ____ = ____

$$9 - 13 =$$

On a number line, what is the number that is 5 to the left of 4?

What is the number that is 5 less than 1?

$$17 + -7 = \underline{\hspace{2cm}}$$

$$17 - 7 = \underline{\hspace{2cm}}$$

$$3 - 2 - 2 =$$

Rewrite $12 - 1$

____ + ____ = ____

On a number line, what is the number that is 8 spaces right of -5?

Rewrite $16 - 2$

____ + ____ = ____

$$11 - 1 = \underline{\hspace{2cm}}$$

$$11 + -1 = \underline{\hspace{2cm}}$$

$$13 - 10 = \underline{\hspace{2cm}}$$

$$13 + -10 = \underline{\hspace{2cm}}$$

Rewrite $18 + -9$

____ - ____ = ____

$$9 + -6 = \underline{\hspace{2cm}}$$

$$9 - 6 = \underline{\hspace{2cm}}$$

$$8 - 13 =$$

Rewrite $14 + -8$

____ - ____ = ____

Name: _____

$$11 - \frac{5}{6} + \frac{1}{7} =$$

$$11 + \frac{6}{7} - \frac{1}{5} =$$

Reduce $\frac{8}{16}$ to its lowest terms.

Write the reciprocal.
15

Write the reciprocal.

$$\frac{1}{14}$$

Write the reciprocal.

$$\frac{9}{7}$$

Write the reciprocal.

$$\frac{5}{4}$$

Write the reciprocal.

$$\frac{1}{3}$$

Write the reciprocal.

15

$$1\frac{1}{3} \times \frac{1}{5} =$$

$$\frac{1}{4} \div 12 =$$

$$\frac{1}{3} \times 6 =$$

Name: _____

Make change. You can use \$20, \$10, \$5, \$1, 25¢, 10¢, 5¢, or 1¢.

Use the fewest bills and coins to make \$47.55.

		\$5		
25¢				

Use the fewest bills and coins to make \$21.23.

Use the fewest bills and coins to make \$45.36.

Use the fewest bills and coins to make \$36.27.

Circle the digit in the hundredths place.

927.786

Name: _____

Find the way from START to END by passing through EVERY number that is a multiple of six exactly ONCE. Cross off each box that is NOT a multiple of six. Yes, that means you have to go through ALL the multiple of six boxes. Wow! You are not allowed to go diagonally. Good luck!

START	984	884	234	114	198	360	456	157	340
289	84	834	654	570	78	791	864	515	605
780	936	894	564	600	384	666	390	836	922
618	300	844	714	780	996	276	996	852	282
666	732	438	174	54	540	576	324	258	168
198	108	474	526	360	258	843	378	558	318
804	990	742	684	882	522	793	942	666	708
788	177	430	330	140	298	327	288	60	692
518	699	660	96	966	630	847	553	236	807
610	609	624	612	438	690	30	114	300	END



Name: _____

Can you guess the word?

No duplicate letters can be used.

M E D I A N

The letter M is in the word
and is in the correct spot.

W **A** N D E R

The letter A is in the word,
but A is not in that spot.

A B C D E F G H I J K L

A list of letters will be given that
have not been used. Good luck!

Hint: There are no duplicate letters in the answer.

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

Let's check if you guessed correctly. Look across or
down to find the correct answer.

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

Hint: There are no duplicate letters in the answer.

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

Let's check if you guessed correctly. Look diagonally
to find the correct answer. (DIAGONAL!)

S S M C H C N E E S L E B B K N
J R S E M E N E V S U S B I B C
E U E U B R U C I B T E R L B I
E N A L B B Q Q L M Z A L L L B
I Q R E A T S T B B L E B K A T
K Z E I L B L B B E L F L L B S
L L A E C B L E L B B L B U E T
E N S U B H B S S B U F E A H E

Hint: There are no duplicate letters in the answer.

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

Let's check if you guessed correctly. Look diagonally
to find the correct answer. (DIAGONAL!)

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

Name: _____

Words can be to the RIGHT, DOWN, LEFT, or UP. Every letter is used ONCE.

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

Write the words found.

SECRETARIES	SUCH	

6 x 10 = _____	3,382 + 9,963 = _____
<p>Write this as a number in standard form. Use a comma in your number.</p> <p>three hundred sixty-eight thousand, two hundred eighty-six</p> <p>_____</p>	<p>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.</p>
3 x 12 = _____	



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ideas!



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+ =
- ÷
< >

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