

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 6 in your head

double it

subtract 2

Add the tens digit to the ones digit.  
Write the sum.

\_\_\_\_\_  
A

imagine 9 in your head

subtract 5

add 6

subtract 4

Write the number.

\_\_\_\_\_  
B

imagine 8 in your head

add 5

subtract 3

Write the odd digit in your answer.

\_\_\_\_\_  
C

imagine 2 in your head

add 1

add 5

add 6

Write the ones digit.

\_\_\_\_\_  
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?

\_\_\_\_\_ l \_\_\_\_\_ v \_\_\_\_\_

5 before 11 \_\_\_\_\_

3 after 17 \_\_\_\_\_

1 before 17 \_\_\_\_\_

9 before 15 \_\_\_\_\_

9 after 12 \_\_\_\_\_

6 before 14 \_\_\_\_\_

3 before 13 \_\_\_\_\_

2 after 19 \_\_\_\_\_

7 before 16 \_\_\_\_\_

8 before 12 \_\_\_\_\_

5 after 11 \_\_\_\_\_

4 before 19 \_\_\_\_\_

2 before 18 \_\_\_\_\_

8 after 15 \_\_\_\_\_

5 before 14 \_\_\_\_\_

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

Mary likes puzzles. She likes to put them together. She owns many puzzles. The last puzzle she worked had 108 pieces. The first puzzle she worked had 15 pieces. How many more pieces did her last puzzle have than her first puzzle?

During the trip Sailor Eric caught a green sea turtle that weighed 421 pounds. The largest green sea turtle ever measured weighed 871 pounds. How much heavier is the largest green sea turtle than the one Sailor Eric caught?

Adam has a book of poetry. He has read to page 94 in his book. There are 63 more pages in the book. How many pages are there in all?

Circle the number that is largest.

90,400    90,040

90,004    94,000

$$9 + 5 - 1$$

Make your own equation.

$$\underline{\quad} - 8 = \underline{\quad}$$

Jenna made some cookies. She made a wild guess about the time to bake them. She left them in the oven for 45 minutes. They all burned. The recipe said they should bake for 13 minutes. How many minutes too long were they in the oven?

Mrs. Moore mailed a fruitcake to Anna. Anna mailed it to Anne. Anne mailed it to Jason. Jason ate it. The fruitcake traveled 129 miles, 123 miles, and 55 miles. How many miles did it travel in all?

Together Maria and Rosa found 29 unique names. Maria found 12 names. How many did Rosa find?

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

Connor wanted to buy a peanut butter and jelly sandwich for his lunch. He had a lot of change in his pockets, but he wasn't sure he had enough to pay \$1.75 for the sandwich. He took out all his change and put it on the table. He had four quarters, six dimes, twelve nickels, and eighteen pennies. How much money did he have in all?

Alex had saved some money to spend on Splurge Day. He said he was going to buy the world's biggest stack of pancakes! He had 4 \$1-bills, 2 half dollars, 3 quarters, 7 dimes, 5 nickels, and 13 pennies. How much money did he have in all? (Hint: Drawing a picture might help!)

Find a clock. What time is it right now?

$$\begin{array}{r} 48 \\ + \quad 6 \\ \hline \end{array}$$

Write this number:  
3 thousands, 9 ones, 8 hundreds

David bought 8 packs of tiny flags for the citizenship program. There are 10 flags in each pack. How many flags did David buy in all?

Connor and Wendy were playing Scrabble. There were 10 tiles left to draw. Connor drew 2 tiles. Wendy drew 4 tiles. What fraction of the tiles is left?

Ava made a honey cake to take to school. She cut the cake into 7 equal pieces. Then she cut each of the pieces in half. She ate 3 pieces of cake before she took it to school. How many pieces of cake did she take to school?

Make your own equation.

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

200, 210, 220, 230,  
\_\_\_\_\_, 250

$$\begin{array}{r} 178 \\ - \quad 12 \\ \hline \end{array}$$

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

Ms. Jackson made a honey cake on Don't Step on a Bee Day. There are 6 people in her family. Each person gets an equal part. What fraction of the cake will each person get?	Sara uses two cups of water to make one package of Jell-O. How many cups of water does she need to make five packages of Jell-O?	Amy wants to go to the juggling show. Tickets cost \$1.50. She has 4 quarters and 2 nickels. How much more money does she need?
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Fill in the boxes so each line equals 10. <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <math>\boxed{\phantom{00}} \div \boxed{5} = 10</math> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <math>\boxed{18} - \boxed{\phantom{00}} = 10</math> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <math>\boxed{2} \times \boxed{\phantom{00}} = 10</math> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <math>(\boxed{\phantom{00}} - \boxed{14}) + \boxed{\phantom{00}} = 10</math> </div> <div style="border: 1px solid black; padding: 5px;"> <math>\boxed{2} + \boxed{\phantom{00}} \times \boxed{\phantom{00}} = 10</math> </div>		There were 148 floats in the parade. What is the value of the digit 4 in the number 148?  <div style="display: flex; justify-content: space-around;"> <div> <math display="block">\begin{array}{r} 23 \\ + 68 \\ \hline \end{array}</math> </div> <div> <math display="block">\begin{array}{r} 16 \\ + 70 \\ \hline \end{array}</math> </div> </div>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <math>4 \overline{)36}</math> </div>
$87 + 79 = \underline{\hspace{2cm}}$	$28 - 14 = \underline{\hspace{2cm}}$	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <math>4 \overline{)8}</math> </div>	
$19 + \boxed{\phantom{00}} = 28$	$14 + \boxed{\phantom{00}} = 23$		
$8 + 6 = \boxed{\phantom{00}}$	$9 - 6 = \boxed{\phantom{00}}$	$14 - 5 = \boxed{\phantom{00}}$	$4 + 6 = \boxed{\phantom{00}}$

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

Fill in the numbers.

11	
	22

93	

42	

37	

55	

	77

	37

76	

	34

79	

Write the correct symbol.

<   =   >  
841       851

- ☐ often
- ☐ oten
- ☐ oftenn
- ☐ oftin

Sara's class made a list of peaceful ways to solve problems. They thought of 27 ways to avoid violence. Hunter's class made a list, too. They thought of 19 ways to avoid violence. How many more ideas did Sara's class have than Hunter's class?

$$\begin{array}{r} 6 \overline{)48} \end{array}$$

$$\begin{array}{r} 8 \overline{)48} \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ 6 \\ + 51 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ - 13 \\ \hline \end{array}$$

Color in  $\frac{2}{3}$ .


$$\begin{array}{r} 62 \\ + 48 \\ \hline \end{array}$$

18 +   = 23

Circle the adverbs in the sentence. On the line, write whether the adverb tells how, when, or where something was done.

It was so exciting to run away with the circus!

\_\_\_\_\_

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

The vowels are missing in the word search.  
Fill in the missing vowels and circle the words.

<input type="text"/>	N	<input type="text"/>	<input type="text"/>	T	R	<input type="text"/>	K	C	C
C	R	K	T	<input type="text"/>	<input type="text"/>	D	C	<input type="text"/>	<input type="text"/>
K	R	D	X	<input type="text"/>	<input type="text"/>	C	A	N	D
H	<input type="text"/>	S	S	<input type="text"/>	N	<input type="text"/>	N	T	<input type="text"/>
R	<input type="text"/>	T	C	<input type="text"/>	F	R	A	N	<input type="text"/>
L	T	R	<input type="text"/>	N	<input type="text"/>	N	L	T	<input type="text"/>
<input type="text"/>	G	<input type="text"/>	R	D	<input type="text"/>	R	M	P	N
R	R	N	<input type="text"/>	<input type="text"/>	R	P	S	<input type="text"/>	R
N	T	G	N	S	F	N	T	<input type="text"/>	G
L	C	<input type="text"/>	S	K	K	C	<input type="text"/>	K	<input type="text"/>

CANAL • SCARE • DUSK • AT  
ANT • UNFAIR • CORN • PEAK  
STRING

$$89 + 14 = \underline{\hspace{2cm}}$$

$$8 \times 7 = \underline{\hspace{2cm}}$$

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

$$\begin{array}{r} 64 \\ \times \phantom{00} \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ \times \phantom{00} \\ \hline \end{array}$$

$$\begin{array}{r} 41 \\ \times \phantom{00} \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 5 \\ \hline \end{array}$$

$$12 + \boxed{\phantom{00}} = 29$$

$$\begin{array}{r} 36 \\ + 50 \\ \hline \end{array}$$

$$61 - 55 = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 72 \\ - 36 \\ \hline \end{array}$$

$$\begin{array}{r} 91 \\ - 45 \\ \hline \end{array}$$

$$\begin{array}{r} 95 \\ - 82 \\ \hline \end{array}$$

$$4 + \boxed{\phantom{00}} = 23$$

$$88 + 45 = \underline{\hspace{2cm}}$$

$$18 + \boxed{\phantom{00}} = 30$$

796      779      765      783  
Write the numbers in order from largest to smallest.

\_\_\_\_\_ largest  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ smallest

$$\begin{array}{r} 84 \\ - 37 \\ \hline \end{array}$$

Circle the best estimate for the answer to:  
 $1,226 + 729$

1,900      2,700      2,600      3,000

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

$$15 + \boxed{\phantom{00}} = 28$$

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

$$\begin{array}{r} 10,005 \\ - 6,727 \\ \hline \end{array}$$

$$\begin{array}{r} 10,554 \\ - 6,275 \\ \hline \end{array}$$

$$\begin{array}{r} 11,500 \\ - 3,607 \\ \hline \end{array}$$

$$\begin{array}{r} 9,603 \\ + 8,643 \\ \hline \end{array}$$

$$\begin{array}{r} 3,123 \\ + 7,013 \\ \hline \end{array}$$

$$\begin{array}{r} 5,816 \\ + 5,163 \\ \hline \end{array}$$

$$\begin{array}{r} 17,284 \\ - 8,617 \\ \hline \end{array}$$

$$\begin{array}{r} 7,810 \\ - 1,458 \\ \hline \end{array}$$

$$\begin{array}{r} 7,379 \\ + 6,189 \\ \hline \end{array}$$

$$\begin{array}{r} 5,966 \\ + 2,332 \\ \hline \end{array}$$

$$\begin{array}{r} 15,025 \\ - 6,559 \\ \hline \end{array}$$

$$\begin{array}{r} 7,956 \\ + 9,344 \\ \hline \end{array}$$

$$\begin{array}{r} 9,573 \\ - 5,682 \\ \hline \end{array}$$

$$\begin{array}{r} 5,180 \\ + 3,062 \\ \hline \end{array}$$

$$\begin{array}{r} 7,057 \\ - 3,985 \\ \hline \end{array}$$

$$\begin{array}{r} 10,258 \\ - 2,863 \\ \hline \end{array}$$

$$\begin{array}{r} 4,937 \\ + 1,151 \\ \hline \end{array}$$

$$\begin{array}{r} 5,316 \\ + 8,359 \\ \hline \end{array}$$

$$\begin{array}{r} 11,581 \\ - 6,535 \\ \hline \end{array}$$

$$\begin{array}{r} 7,729 \\ - 3,314 \\ \hline \end{array}$$

$$\begin{array}{r} 2,212 \\ + 7,422 \\ \hline \end{array}$$

$$\begin{array}{r} 10,877 \\ - 6,027 \\ \hline \end{array}$$

$$\begin{array}{r} 7,972 \\ + 1,659 \\ \hline \end{array}$$

$$\begin{array}{r} 9,285 \\ + 5,427 \\ \hline \end{array}$$

$$\begin{array}{r} 7,700 \\ + 4,357 \\ \hline \end{array}$$

$$\begin{array}{r} 12,134 \\ - 7,142 \\ \hline \end{array}$$

$$\begin{array}{r} 9,986 \\ - 2,139 \\ \hline \end{array}$$

$$\begin{array}{r} 8,686 \\ + 3,140 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 7 \\ \hline \square \end{array}$$

$$\begin{array}{r} + 7 \\ \hline \square \\ + 4 \end{array}$$

$$\begin{array}{r} 19 \\ + \square \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ + \square \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ - \square \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ + 3 \\ \hline \square \end{array}$$

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

$$\begin{array}{r} 23 \\ + \square \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ + \square \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ - \square \\ \hline \end{array}$$

$$30$$

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

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

Maria has \$16.13. She has 4 bills and 15 coins. How?

		\$1	
--	--	-----	--

5¢

Jason has \$11.57. He has 2 bills and 5 coins. How?

--	--

Anne has \$77.13. She has 9 bills and 13 coins. How?

$$8 \overline{)72}$$

$$7 \overline{)21}$$

353                      330                      368                      392

Write the numbers in order from largest to smallest.

largest
smallest



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



$10 \div 5 =$

$14 \div 7 =$

$8 \div 4 =$

$16 \div 4 =$

$72 \div 8 =$

$18 \div 9 =$

$12 \div 4 =$

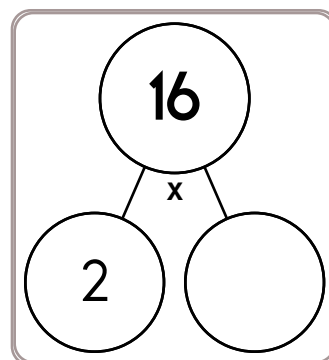
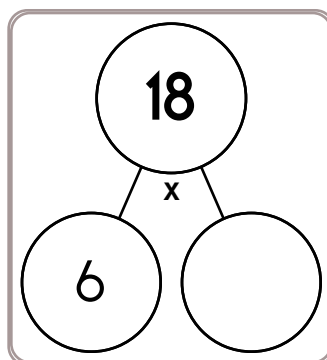
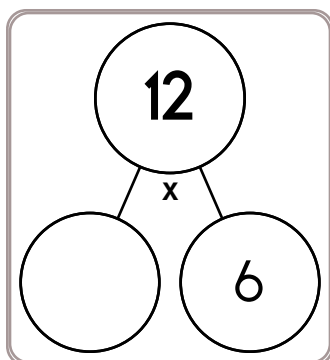
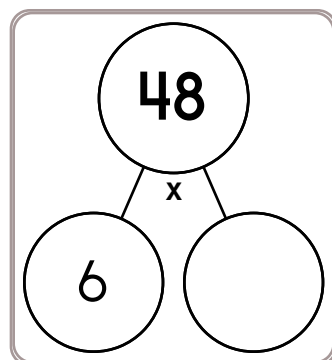
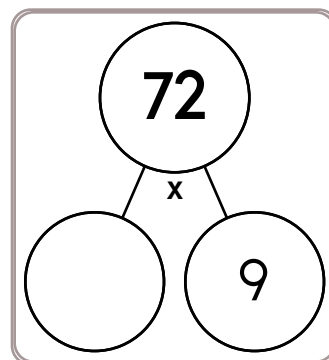
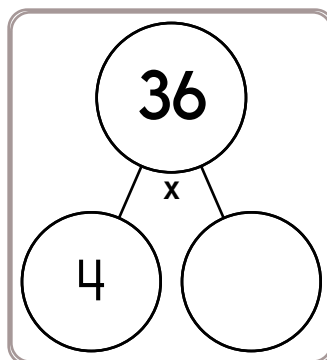
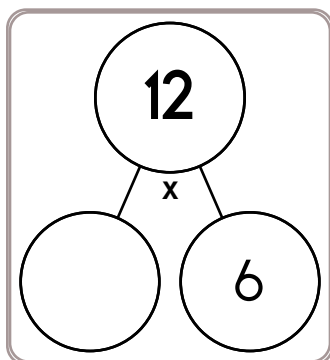
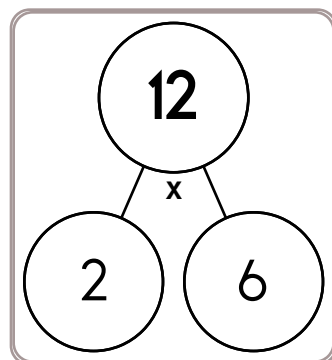
$21 \div 3 =$

$36 \div 4 =$

$36 \div 6 =$

$56 \div 8 =$

$35 \div 7 =$



$8 \overline{) 32}$

$6 \overline{) 18}$

$2 \overline{) 4}$

$3 \overline{) 24}$

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

$$\begin{array}{r} 5 \\ 9 \overline{)45} \\ \underline{45} \\ 0 \end{array}$$

Check. →

$$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$$

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

$$\begin{array}{r} 3 \overline{)21} \\ \underline{21} \\ 0 \end{array}$$

Check. →

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

$$21 \div 7 = \underline{\quad}$$

$$\begin{array}{r} 7 \overline{)63} \\ \underline{63} \\ 0 \end{array}$$

Check. →

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

$$63 \div 9 = \underline{\quad}$$

$$\begin{array}{r} 2 \overline{)8} \\ \underline{8} \\ 0 \end{array}$$

Check. →

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

$$8 \div 4 = \underline{\quad}$$

$$\begin{array}{r} 6 \overline{)12} \\ \underline{12} \\ 0 \end{array}$$

Check. →

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

$$12 \div 2 = \underline{\quad}$$

$$\begin{array}{r} 5 \overline{)40} \\ \underline{40} \\ 0 \end{array}$$

Check. →

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

$$40 \div 8 = \underline{\quad}$$

$$\begin{array}{r} 8 \overline{)56} \\ \underline{56} \\ 0 \end{array}$$

Check. →

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

$$56 \div 7 = \underline{\quad}$$

$$\begin{array}{r} 4 \overline{)36} \\ \underline{36} \\ 0 \end{array}$$

Check. →

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

$$36 \div 9 = \underline{\quad}$$

$$\begin{array}{r} 8 \overline{)72} \\ \underline{72} \\ 0 \end{array}$$

Check. →

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

$$72 \div 9 = \underline{\quad}$$

$$\begin{array}{r} 2 \overline{)6} \\ \underline{6} \\ 0 \end{array}$$

Check. →

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

$$\begin{array}{r} 8 \overline{)56} \\ \underline{56} \\ 0 \end{array}$$

Check. →

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

$$\begin{array}{r} 7 \overline{)63} \\ \underline{63} \\ 0 \end{array}$$

Check. →

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

$$\begin{array}{r} 4 \overline{)20} \\ \underline{20} \\ 0 \end{array}$$

Check. →

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

$$\begin{array}{r} 3 \overline{)12} \\ \underline{12} \\ 0 \end{array}$$

Check. →

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

$$\begin{array}{r} 9 \overline{)45} \\ \underline{45} \\ 0 \end{array}$$

Check. →

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

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

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

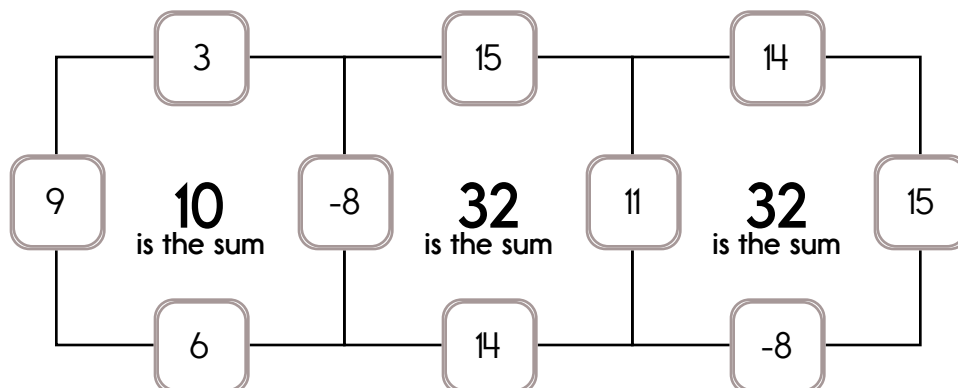
Example:

$$9 + 3 + 6 - 8 = 10$$

Example:

$$11 + 15 + 14 - 8 = 32$$

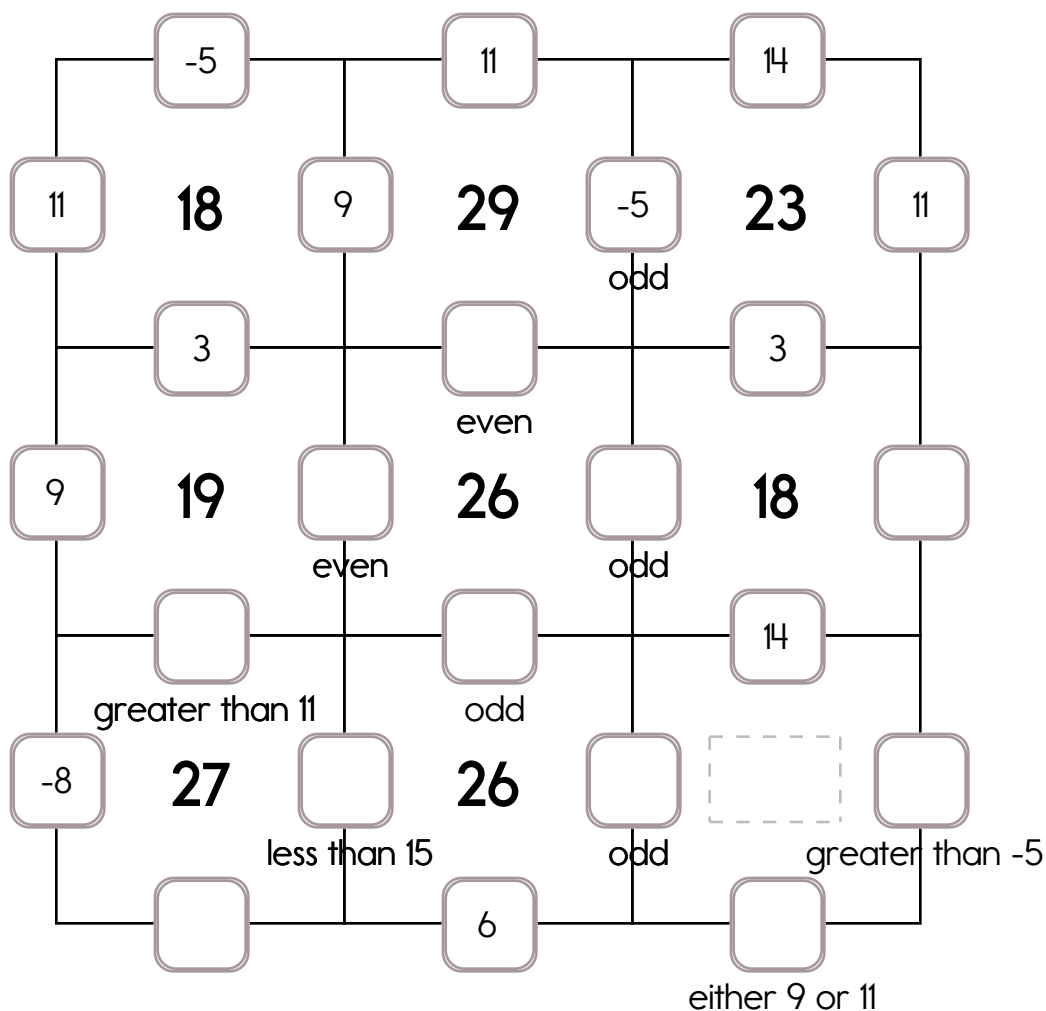
Sample:



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: -2, -5, or -8.

The other three numbers have to all be DIFFERENT and must be from these: 14, 9, 15, 3, 6, or 11.

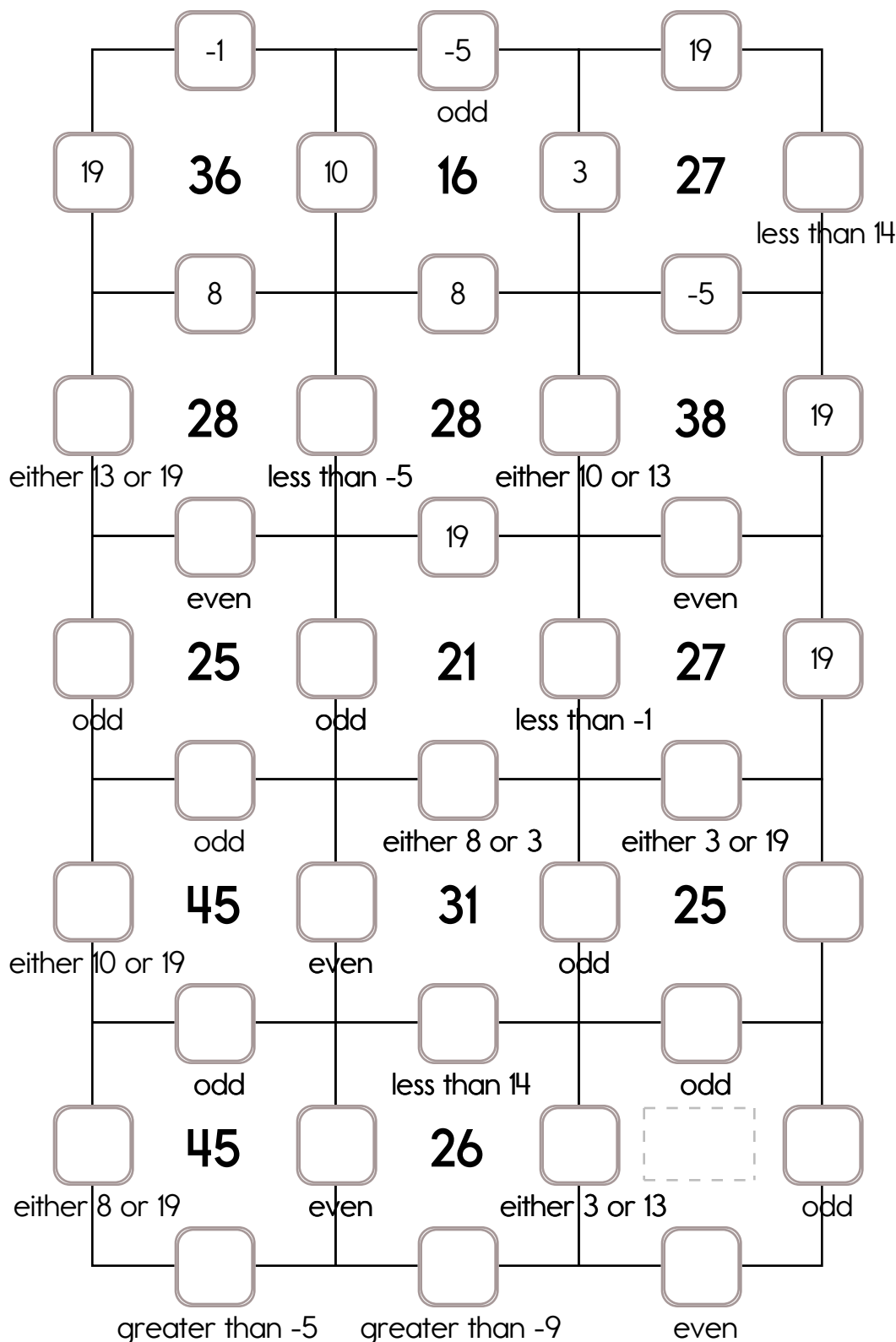


Name: \_\_\_\_\_

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: -9, -1, or -5.

The other three numbers have to all be DIFFERENT and must be from these: 13, 14, 8, 3, 19, or 10.



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

			+		+		=	
	A	A	C	?				
+	A	B	A	19				
=								
	12	13	18					

### Equations and Hints:

Each letter is a whole number.

Fill in the equations using the chart:

$$C + A = 18 \quad A + B = \underline{\quad} \quad \underline{\quad} + \underline{\quad} + \underline{\quad} = 19$$

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

Additional hints:

C is the largest.    A is the smallest.     $B = A + 1$

Each letter is less than 17.

### Show Work:

### Solve:

$$? = \underline{\quad}$$



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New ideas!



$\times$   
 $\times =$   
 $- \div$   
 $< - >$

More puzzles!



