

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

subtract 3

add 6

Write the number.

\_\_\_\_\_  
A

imagine 8 in your head

double it

add 6

subtract 3

Add the tens digit to the ones digit.

Write the sum.

\_\_\_\_\_  
B    C

imagine 4 in your head

add 6

add 1

Write the tens digit.

\_\_\_\_\_  
D

imagine 7 in your head

subtract 2

add 6

Write the ones digit.

\_\_\_\_\_  
E

What is the sum?

A + B + C + D + E

\_\_\_\_\_

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

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

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

8 after 18 \_\_\_\_\_

5 after 16 \_\_\_\_\_

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

7 after 17 \_\_\_\_\_

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

9 before 13 \_\_\_\_\_

2 after 13 \_\_\_\_\_

1 after 14 \_\_\_\_\_

1 before 16 \_\_\_\_\_

6 after 15 \_\_\_\_\_

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

4 before 18 \_\_\_\_\_

9 after 19 \_\_\_\_\_

2 after 16 \_\_\_\_\_



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

Get a fidget spinner! Spin it.

I needed to spin \_\_\_\_\_ time(s) to finish.

$$\begin{array}{r} 88972 \\ - 9545 \\ \hline \end{array}$$

$$\begin{array}{r} 24804 \\ - 3367 \\ \hline \end{array}$$

$$\begin{array}{r} 65107 \\ + 7792 \\ \hline \end{array}$$

$$\begin{array}{r} 98890 \\ - 2489 \\ \hline \end{array}$$

$$\begin{array}{r} 68098 \\ + 9694 \\ \hline \end{array}$$

$$\begin{array}{r} 28484 \\ + 2125 \\ \hline \end{array}$$

$$\begin{array}{r} 73588 \\ - 3623 \\ \hline \end{array}$$

$$\begin{array}{r} 42579 \\ + 7326 \\ \hline \end{array}$$

$$\begin{array}{r} 96624 \\ + 4686 \\ \hline \end{array}$$

$$\begin{array}{r} 12980 \\ - 5269 \\ \hline \end{array}$$

$$\begin{array}{r} 46032 \\ + 8161 \\ \hline \end{array}$$

$$\begin{array}{r} 45568 \\ - 9358 \\ \hline \end{array}$$

$$\begin{array}{r} 81054 \\ - 7865 \\ \hline \end{array}$$

$$\begin{array}{r} 43719 \\ + 8144 \\ \hline \end{array}$$

$$\begin{array}{r} 31854 \\ + 6968 \\ \hline \end{array}$$



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

Spin again.

I needed to spin \_\_\_\_\_ time(s) to finish.

$$\begin{array}{r} 935 \\ + 70 \\ \hline \end{array}$$

$$\begin{array}{r} 387 \\ + 59 \\ \hline \end{array}$$

$$\begin{array}{r} 843 \\ - 37 \\ \hline \end{array}$$

$$\begin{array}{r} 938 \\ - 81 \\ \hline \end{array}$$

$$\begin{array}{r} 720 \\ + 16 \\ \hline \end{array}$$

$$\begin{array}{r} 454 \\ - 41 \\ \hline \end{array}$$

$$\begin{array}{r} 140 \\ + 51 \\ \hline \end{array}$$

$$\begin{array}{r} 745 \\ + 94 \\ \hline \end{array}$$

$$\begin{array}{r} 797 \\ - 89 \\ \hline \end{array}$$

$$\begin{array}{r} 112 \\ - 28 \\ \hline \end{array}$$

$$\begin{array}{r} 184 \\ + 90 \\ \hline \end{array}$$

$$\begin{array}{r} 294 \\ - 48 \\ \hline \end{array}$$

$$\begin{array}{r} 165 \\ + 96 \\ \hline \end{array}$$

$$\begin{array}{r} 893 \\ + 55 \\ \hline \end{array}$$

$$\begin{array}{r} 498 \\ - 93 \\ \hline \end{array}$$

$$\begin{array}{r} 788 \\ + 11 \\ \hline \end{array}$$

$$\begin{array}{r} 562 \\ + 45 \\ \hline \end{array}$$

$$\begin{array}{r} 590 \\ + 59 \\ \hline \end{array}$$

$$\begin{array}{r} 622 \\ - 48 \\ \hline \end{array}$$

$$\begin{array}{r} 633 \\ - 74 \\ \hline \end{array}$$

$$\begin{array}{r} 517 \\ - 79 \\ \hline \end{array}$$

$$\begin{array}{r} 329 \\ - 91 \\ \hline \end{array}$$

$$\begin{array}{r} 311 \\ + 19 \\ \hline \end{array}$$

$$\begin{array}{r} 733 \\ - 60 \\ \hline \end{array}$$

$$\begin{array}{r} 971 \\ + 57 \\ \hline \end{array}$$

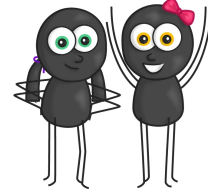
Jacob likes to learn about Australia. He saved 12 one-dollar bills to buy a book about kangaroos. After he paid for the book, he had  $\frac{1}{4}$  of his one-dollar bills left. How many one-dollar bills were left?

Circle the abstract noun.  
childhood, child, baby, infant

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$\begin{array}{r} 73 \\ + 12 \\ \hline \end{array}$	$\begin{array}{r} 34 \\ + 34 \\ \hline \end{array}$	$\begin{array}{r} 50 \\ + 30 \\ \hline \end{array}$	$\begin{array}{r} 20 \\ + 75 \\ \hline \end{array}$	$\begin{array}{r} 98 \\ - 95 \\ \hline \end{array}$	$4 + \square = 6$  $4 + \square = 7$
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$\begin{array}{r} 21 \\ + 38 \\ \hline \end{array}$	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Fill in the blanks with these numbers: 9, 4, 2</p> <math display="block">\begin{array}{r} \square 5 \\ - \square 3 \\ \hline 5 \square \end{array}</math> </div> <div style="text-align: center;"> <p>Fill in the blanks with these numbers: 2, 0, 1</p> <math display="block">\begin{array}{r} 5 \square \\ - 3 \square \\ \hline \square \square \end{array}</math> </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <math display="block">\begin{array}{r} 49 \\ + 94 \\ \hline \end{array}</math> </div> <div style="text-align: center;"> <math display="block">\begin{array}{r} 71 \\ + 43 \\ \hline \end{array}</math> </div> </div>
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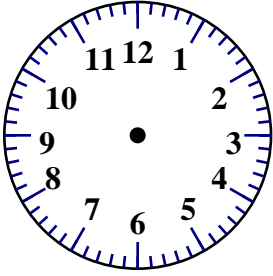


<p>Expand the number.</p> $9,736 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{6}$		<input type="radio"/> voce <input type="radio"/> voi <input type="radio"/> voice <input type="radio"/> vios
$8 + \square = 12$	$5 + \square = 7$	

$\begin{array}{r} 39 \\ - 23 \\ \hline \end{array}$	 <b>current time</b>	 <b>15 minutes later</b>	$\begin{array}{r} 48 \\ - 21 \\ \hline \end{array}$	$7 + \square = 19$  $9 + \square = 11$  $4 + \square = 14$
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$74 - 8 = \underline{\hspace{2cm}}$	<input type="radio"/> prayy <input type="radio"/> pray <input type="radio"/> pruy <input type="radio"/> pra	$\begin{array}{r} 24 \\ + 70 \\ \hline \end{array}$	<p>Write a word to describe December.</p> <p>_____</p>
			$7 + \square = 9$

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<div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block; margin-bottom: 10px;">08:09</div> 	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>Fill in the blanks with these numbers: 2, 3, 1</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">3 <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></div></div> <div style="text-align: center;">3 <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></div></div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">+ 5 <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></div></div> <div style="text-align: center;">8 <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></div></div> </div> </div> <div style="width: 48%;"> <p>Fill in the blanks with these numbers: 3, 1, 0</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">4 <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></div></div> <div style="text-align: center;">2 <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></div></div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">+ 3 <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></div></div> <div style="text-align: center;">1 <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></div></div> </div> </div> </div>
<p>80 - 7 = _____</p>	
<p>4 + <div style="border: 1px solid black; width: 40px; height: 40px; display: inline-block;"></div> = 6</p>	

Count by 3s.

3 , 6 , 9 , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Draw ONE continuous line that touches every box ONCE.

Count by 3s. Find the box with the number 3. Move up, down, right, or left. Keep counting until you reach 96. Do not move into a spot with a ghost.

	81	--	--	--	--	--
				--	--	
	--	--	--	--30		
	--	--	--	45		
96	3--	--6--	--			54



Write this number using words.

$$\begin{array}{r} 77 \\ + 27 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 83 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ + 80 \\ \hline \end{array}$$

word root **bi** can mean **two**

**bicycle, bifocals**

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$$\begin{array}{r} 512 \\ + 892 \\ \hline \end{array}$$

$$\begin{array}{r} 1,269 \\ - 389 \\ \hline \end{array}$$

$$\begin{array}{r} 1,189 \\ - 644 \\ \hline \end{array}$$

$$\begin{array}{r} 581 \\ - 448 \\ \hline \end{array}$$

$$\begin{array}{r} 242 \\ + 830 \\ \hline \end{array}$$

$$\begin{array}{r} 869 \\ + 493 \\ \hline \end{array}$$

$$\begin{array}{r} 166 \\ + 374 \\ \hline \end{array}$$

$$\begin{array}{r} 873 \\ - 666 \\ \hline \end{array}$$

$$\begin{array}{r} 1,523 \\ - 882 \\ \hline \end{array}$$

$$\begin{array}{r} 934 \\ + 158 \\ \hline \end{array}$$

$$\begin{array}{r} 629 \\ + 958 \\ \hline \end{array}$$

$$\begin{array}{r} 1,175 \\ - 412 \\ \hline \end{array}$$

$$\begin{array}{r} 1,130 \\ - 980 \\ \hline \end{array}$$

$$\begin{array}{r} 961 \\ - 789 \\ \hline \end{array}$$

$$\begin{array}{r} 904 \\ + 483 \\ \hline \end{array}$$

$$\begin{array}{r} 1,126 \\ - 617 \\ \hline \end{array}$$

$$\begin{array}{r} 275 \\ + 669 \\ \hline \end{array}$$

$$\begin{array}{r} 363 \\ + 658 \\ \hline \end{array}$$

$$\begin{array}{r} 308 \\ + 950 \\ \hline \end{array}$$

$$\begin{array}{r} 799 \\ + 121 \\ \hline \end{array}$$

$$\begin{array}{r} 804 \\ - 618 \\ \hline \end{array}$$

$$\begin{array}{r} 1,566 \\ - 976 \\ \hline \end{array}$$

$$\begin{array}{r} 141 \\ + 608 \\ \hline \end{array}$$

$$\begin{array}{r} 846 \\ - 499 \\ \hline \end{array}$$

$$\begin{array}{r} 1,128 \\ - 677 \\ \hline \end{array}$$

$$\begin{array}{r} 861 \\ + 177 \\ \hline \end{array}$$

$$\begin{array}{r} 1,327 \\ - 908 \\ \hline \end{array}$$

$$\begin{array}{r} 645 \\ - 399 \\ \hline \end{array}$$

$$\begin{array}{r} 816 \\ + 268 \\ \hline \end{array}$$

$$\begin{array}{r} 121 \\ + 372 \\ \hline \end{array}$$

$$\begin{array}{r} 1,093 \\ - 769 \\ \hline \end{array}$$

$$\begin{array}{r} 1,708 \\ - 964 \\ \hline \end{array}$$

$$\begin{array}{r} 890 \\ + 520 \\ \hline \end{array}$$

$$\begin{array}{r} 1,557 \\ - 950 \\ \hline \end{array}$$

$$\begin{array}{r} 811 \\ + 871 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 7 \\ \hline \square \end{array}$$

$$\begin{array}{r} + 8 \\ \hline \square \\ + 8 \end{array}$$

$$\begin{array}{r} 28 \\ - \square \\ \hline 24 \end{array}$$

$$\begin{array}{r} - 5 \\ \hline \square \\ + 5 \end{array}$$

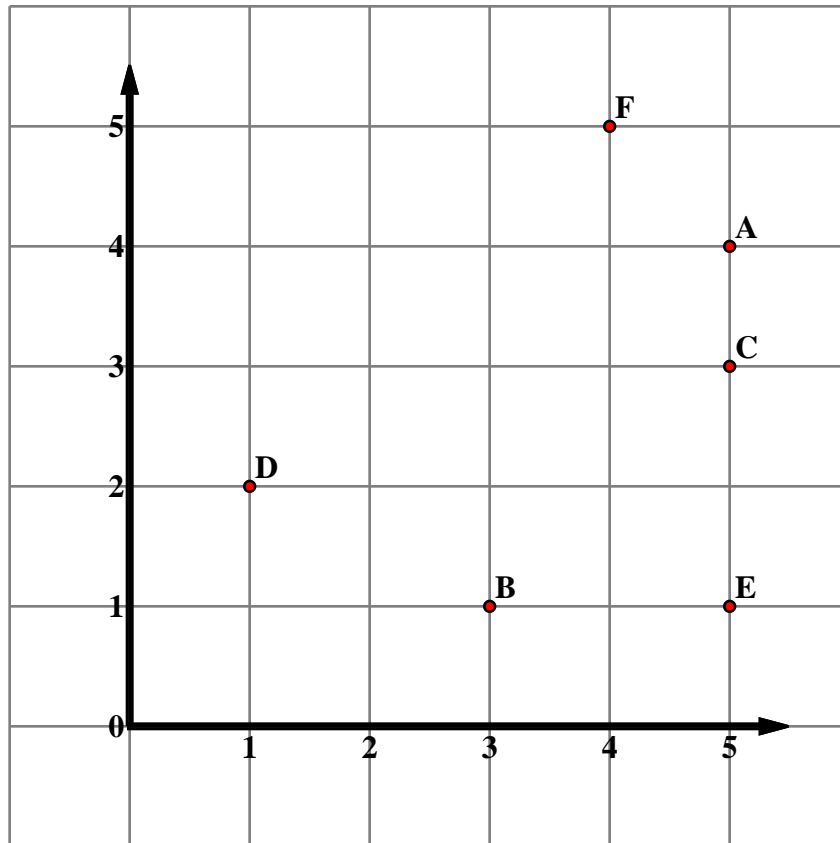
$$\begin{array}{r} + 7 \\ \hline \square \\ + 7 \end{array}$$

$$\begin{array}{r} + 7 \\ \hline 38 \\ + \square \end{array}$$

$$\begin{array}{r} 40 \\ - \square \\ \hline 36 \end{array}$$

$$\begin{array}{r} - 9 \\ \hline \square \end{array}$$

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Write the letter that is at the ordered pair.

- |                                 |                        |                        |
|---------------------------------|------------------------|------------------------|
| 1. <b>(4, 5)</b> _____ <b>F</b> | 2. <b>(5, 3)</b> _____ | 3. <b>(1, 2)</b> _____ |
| 4. <b>(3, 1)</b> _____          | 5. <b>(5, 1)</b> _____ | 6. <b>(5, 4)</b> _____ |

Write the ordered pair for the given point.

- |                                 |                    |                    |
|---------------------------------|--------------------|--------------------|
| 7. <b>F</b> _____ <b>(4, 5)</b> | 8. <b>C</b> _____  | 9. <b>D</b> _____  |
| 10. <b>E</b> _____              | 11. <b>B</b> _____ | 12. <b>A</b> _____ |

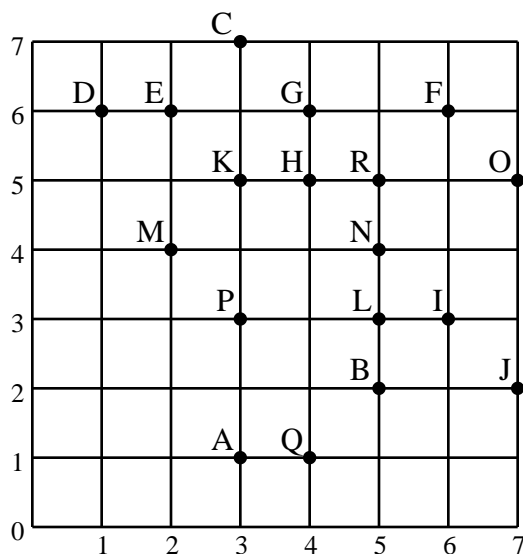
Plot each point on the coordinate grid.

- |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|
| 13. <b>G (4, 2)</b> _____ | 14. <b>H (2, 3)</b> _____ | 15. <b>I (3, 2)</b> _____ |
| 16. <b>J (3, 5)</b> _____ | 17. <b>K (5, 5)</b> _____ | 18. <b>L (2, 4)</b> _____ |
| 19. <b>M (1, 4)</b> _____ | 20. <b>N (3, 3)</b> _____ | 21. <b>O (4, 1)</b> _____ |



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Write the distance (in units) for each line segment on the coordinate grid.



$\overline{MN}$  3

$\overline{RH}$  \_\_\_\_\_

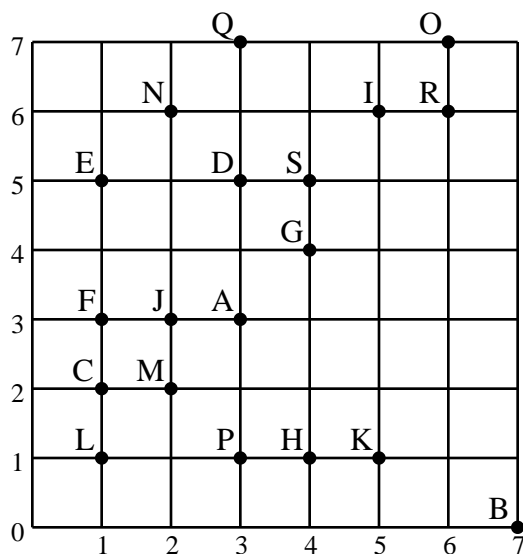
$\overline{GQ}$  \_\_\_\_\_

$\overline{OJ}$  \_\_\_\_\_

$\overline{IF}$  \_\_\_\_\_

$\overline{KC}$  \_\_\_\_\_

Draw line segment TV with a length of 5 units on the chart.  
You will need to plot the points T and V on the chart.



$\overline{LK}$  4

$\overline{PQ}$  \_\_\_\_\_

$\overline{FA}$  \_\_\_\_\_

$\overline{OR}$  \_\_\_\_\_

$\overline{ED}$  \_\_\_\_\_

$\overline{GH}$  \_\_\_\_\_

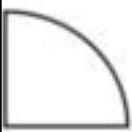



Draw line segment UW with a length of 7 units on the chart.  
You will need to plot the points U and W on the chart.

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

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

Each row, column, and box must have 4 different pictures.

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

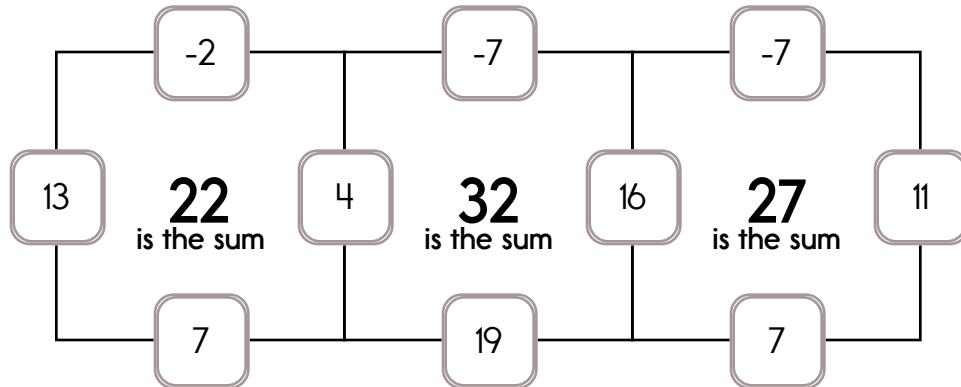
Example:

$$13 + 4 + 7 - 2 = 22$$

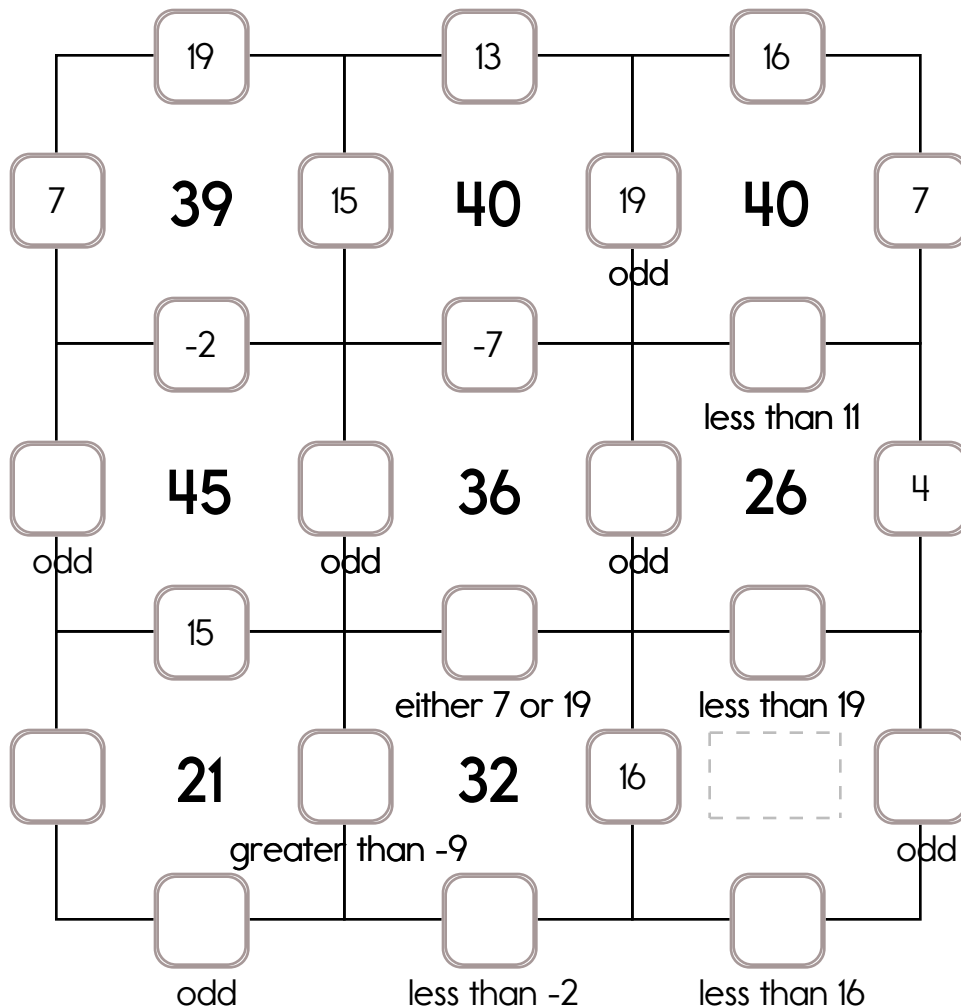
Example:

$$16 + 11 + 7 - 7 = 27$$

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, -7, or -9. The other three numbers have to all be DIFFERENT and must be from these: 4, 11, 13, 19, 16, 15, or 7.

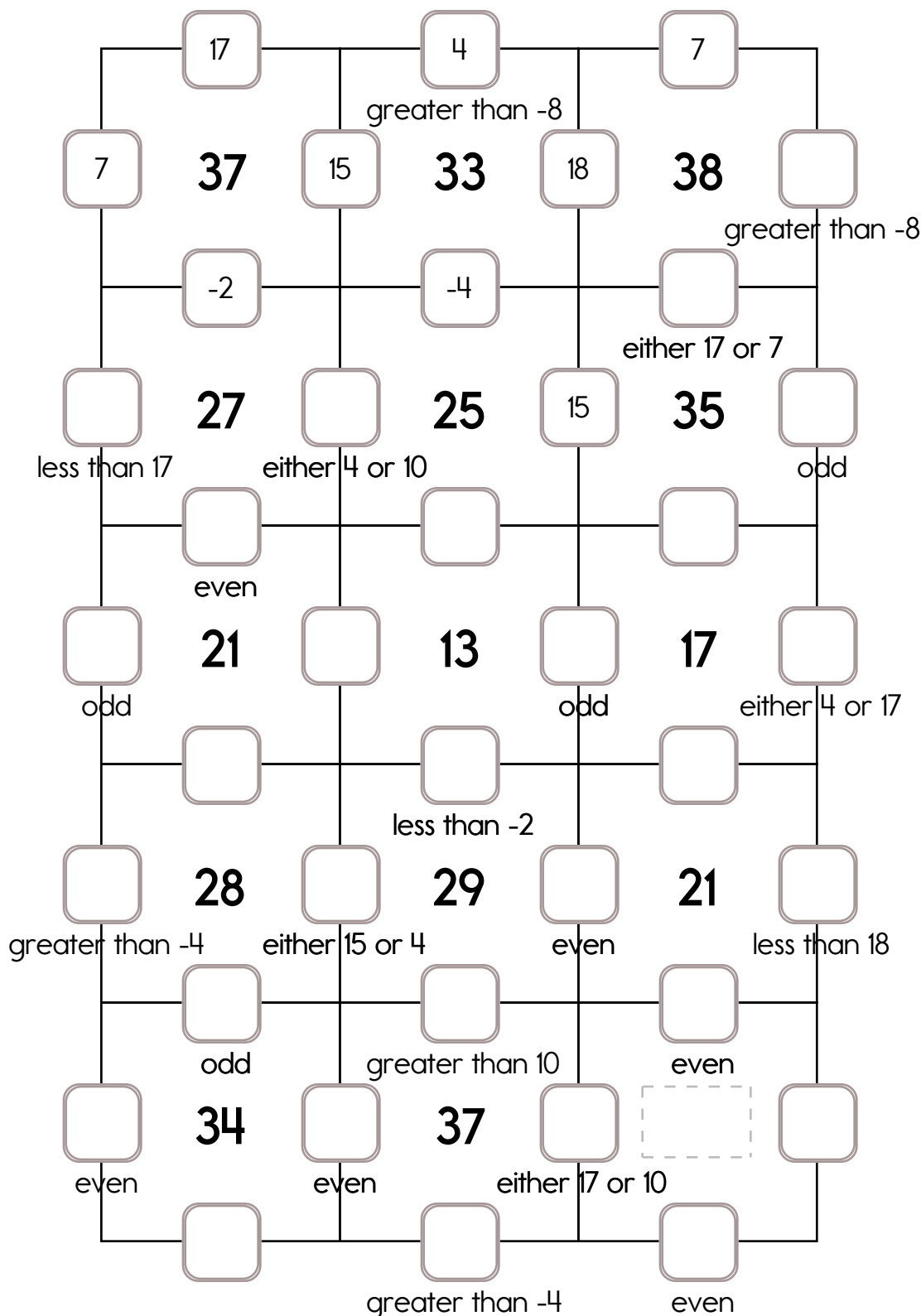


Name: \_\_\_\_\_

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: -8, -4, or -2.

The other three numbers have to all be DIFFERENT and must be from these: 17, 15, 4, 7, 10, or 18.





It's NO PREP at edHelper.

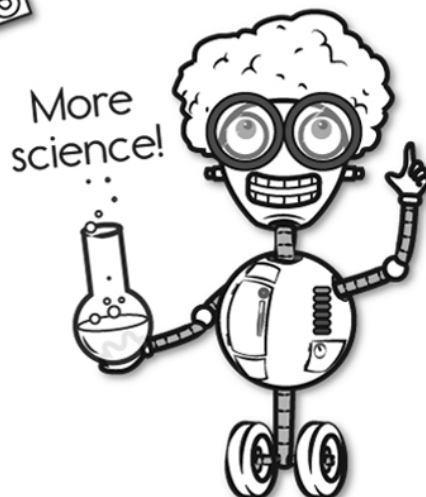
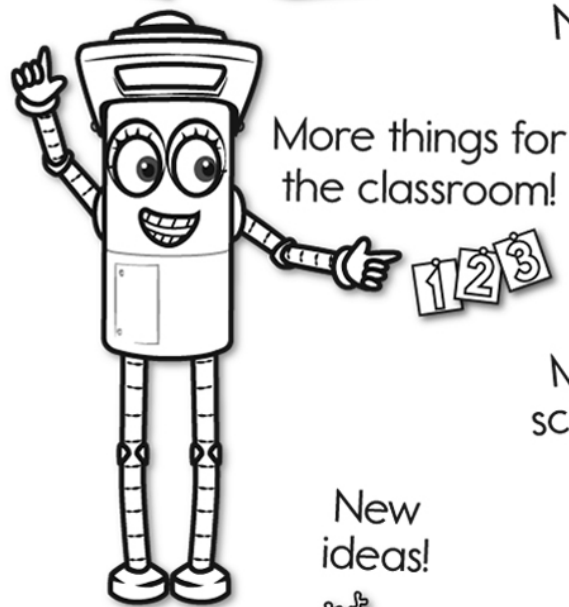
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x  
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