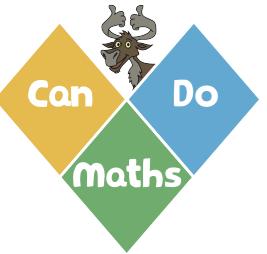


Addition



A hand-drawn style signpost pointing right. The sign itself is a white rectangle with a black outline. The word "Year 1" is written in a large, black, cursive-style font. Two vertical sticks support the sign from below, and a green, leafy base is at the bottom.

$5 = 5 + 0$		$5 - 0 = 5$
$5 = 4 + 1$		$5 - 1 = 4$
$5 = 3 + 2$		$5 - 2 = 3$
$5 = 2 + 3$		$5 - 3 = 2$
$5 = 1 + 4$		$5 - 4 = 1$
$5 = 0 + 5$		$5 - 5 = 0$
$6 = 6 + 0$		$6 - 0 = 6$
$6 = 5 + 1$		$6 - 1 = 5$
$6 = 4 + 2$		$6 - 2 = 4$
$6 = 3 + 3$		$6 - 3 = 3$
$6 = 2 + 4$		$6 - 4 = 2$
$6 = 1 + 5$		$6 - 5 = 1$
$6 = 0 + 6$		$6 - 6 = 0$
5 is the whole 2 is a part 3 is a part		
 add total subtract left		

$7 = 7 + 0$		$7 - 0 = 7$
$7 = 6 + 1$		$7 - 1 = 6$
$7 = 5 + 2$		$7 - 2 = 5$
$7 = 4 + 3$		$7 - 3 = 4$
$7 = 3 + 4$		$7 - 4 = 3$
$7 = 2 + 5$		$7 - 5 = 2$
$7 = 1 + 6$		$7 - 6 = 1$
$7 = 0 + 7$		$7 - 7 = 0$

8 is the whole
2 is a part
6 is a part

A diagram showing the number 8 as a whole composed of two parts, 2 and 6. A blue circle contains the number 8, with lines connecting it to two green circles containing the numbers 2 and 6 respectively.

9	
10	

 10 = 1 + 9 10 = 2 + 8 10 = 3 + 7 10 = 4 + 6 10 = 5 + 5 10 = 6 + 4 10 = 7 + 3 10 = 8 + 2 10 = 9 + 1 10 = 10 + 0	 12 = 1 + 11 12 = 2 + 10 12 = 3 + 9 12 = 4 + 8 12 = 5 + 7 12 = 6 + 6 12 = 7 + 5 12 = 8 + 4 12 = 9 + 3 12 = 10 + 2 12 = 11 + 1 12 = 12 + 0	 5 is one part 7 is one part 12 is the whole	 15 = 1 + 14 15 = 2 + 13 15 = 3 + 12 15 = 4 + 11 15 = 5 + 10 15 = 6 + 9 15 = 7 + 8 15 = 8 + 7 15 = 9 + 6 15 = 10 + 5 15 = 11 + 4 15 = 12 + 3 15 = 13 + 2 15 = 14 + 1 15 = 15 + 0	 7 is one part 8 is one part 15 is the whole	 16 = 1 + 15 16 = 2 + 14 16 = 3 + 13 16 = 4 + 12 16 = 5 + 11 16 = 6 + 10 16 = 7 + 9 16 = 8 + 8 16 = 9 + 7 16 = 10 + 6 16 = 11 + 5 16 = 12 + 4 16 = 13 + 3 16 = 14 + 2 16 = 15 + 1 16 = 16 + 0	 5 is one part 7 is one part 6 is one part 18 is the whole
-----------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------

<p>3543 + 2312 No regrouping</p> <p>1000s 100s 10s 1s</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>3000</td><td>500</td><td>40</td><td>3</td></tr> <tr> <td>2000</td><td>300</td><td>10</td><td>2</td></tr> <tr> <td>0000</td><td>000</td><td>0</td><td>0</td></tr> </table> <p>3 5 4 3 + 2 3 1 2 ----- 5 8 5 5</p> <p><i>group exchange ones hundreds thousands</i></p> <p>$\begin{array}{r} 3+2=5 \\ 4+1=5 \\ 5+3=8 \\ 3+2=5 \end{array}$</p>	3000	500	40	3	2000	300	10	2	0000	000	0	0	<p>3544 + 2318 Regrouping the ones</p> <p>1000s 100s 10s 1s</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>3000</td><td>500</td><td>40</td><td>4</td></tr> <tr> <td>2000</td><td>300</td><td>10</td><td>8</td></tr> <tr> <td>0000</td><td>000</td><td>0</td><td>0</td></tr> </table> <p>3 5 4 4 + 2 3 1 8 ----- 5 8 6 2</p> <p><i>Regroup the 12 ones into 1 ten and 2 ones</i></p>	3000	500	40	4	2000	300	10	8	0000	000	0	0	<p>3544 + 2658 Regrouping in multiple columns</p> <p>1000s 100s 10s 1s</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>3000</td><td>500</td><td>40</td><td>4</td></tr> <tr> <td>2000</td><td>600</td><td>10</td><td>8</td></tr> <tr> <td>0000</td><td>000</td><td>10</td><td>10</td></tr> </table> <p>3 5 4 4 + 2 6 5 8 ----- 6 2 0 2</p> <p><i>If the column sum is equal to ten or more, we must regroup</i></p>	3000	500	40	4	2000	600	10	8	0000	000	10	10
3000	500	40	3																																			
2000	300	10	2																																			
0000	000	0	0																																			
3000	500	40	4																																			
2000	300	10	8																																			
0000	000	0	0																																			
3000	500	40	4																																			
2000	600	10	8																																			
0000	000	10	10																																			

Bridging boundaries

Add multiples of ten and a hundred

Round then adjust

150 + 80

325 + 200

234 + 199

Add 200 then subtract 1

$35 + 20$
Add multiples of ten

If I know $3 + 2$ then I also know.



$35 + 19$
Round then adjust

Add 20 then subtract 1



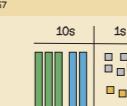
$35 + 23$
Partition and recombine

$30 + 5 + 20 + 3$

$50 + 8 = 58$



$35 + 23 = 23 + 35$
Addition is commutative

2997 + 6
Bridging boundaries

3754 + 600
Add multiples of ten and a hundred

3452 + 1999
Round then adjust

Stop and Look:
What do you notice?
What's the most efficient way?

Add 2000 then subtract 1

**If I know
 $7 + 6 = 13$
then...**

**Total difference
ones
tens
hundreds
Thousands**

A hand-drawn style signpost pointing to the right. The sign itself is a white trapezoid with a black outline. The word "Year 5" is written in black, rounded, sans-serif font inside the sign. Two vertical grey lines support the sign from below, and a green, leafy base is at the bottom.

63,452 + 19,991
Round then adjust

Add 20,000 then subtract 1

2,452 - 0,999
Round then adjust

Take away 1 then add 1 thousandth

40,007 - 39,945
Find the difference between two numbers

Count on 5 from 39,000 to 40,000, then 7 more so the difference between them is 32.

Written methods

25,648
+ 42,524

68,172

45,748

- 26,374

19,374

*Show label
Subtract
Difference*

A white directional signpost with a black outline, shaped like a large arrow pointing right. The word "Year 6" is written in black, bold, sans-serif font inside the sign. The sign is mounted on two thin, vertical wooden posts. It is positioned above a green, leafy base.