

Formal written addition methods

Learn

You can add 2-digit numbers by adding the tens and ones separately.

Here is one way to work out $64 + 35$.

$$\begin{aligned} 60 + 4 + 30 + 5 \\ = 90 + 9 \\ = 99 \end{aligned}$$

This is a more formal method.

	60	+	4
+	30	+	5
	90	+	9

So $64 + 35 = 99$

Here is another way.

	6	4
+	3	5
	9	9

Sometimes the ones total more than 10.

Here are two ways of working out $57 + 29$.

	50	+	7
+	20	+	9
	70	+	16
			86

	5	7
+	2	9
	8	6

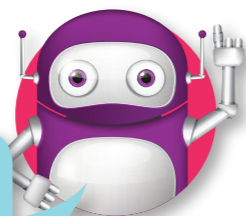
You can use the same methods to add 3-digit numbers.

Here are two ways of working out $135 + 287$.

	100	+	30	+	5
+	200	+	80	+	7
	300	+	110	+	12
		410		+	12
			422		

	1	3	5
+	2	8	7
	4	2	2

Carry 10s and 100s over by putting a small one under the line. Remember to add it on.



Tip

Try all the different methods several times before you decide which you like best. Set out your work carefully, using squared paper to help you if possible. This will help you to line up the hundreds, tens and ones.

Talk maths

Here are three formal additions. Explain what is happening in each one.

$26 + 38$

	2	6
+	3	8
	6	4

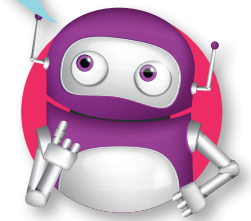
$156 + 47$

	1	5	6
+		4	7
		1	3
		9	0
	1	0	0
	2	0	3

$564 + 297$

	5	6	4
+	2	9	7
		1	1
	1	5	0
	7	0	0
	8	6	1

Would you have used a different written method to work out these additions? Explain your choice to a partner.



Activities



Use a formal written method for each of these.

1. $56 + 47$

2. $145 + 37$

3. $468 + 259$

Problems



Brain-teaser

There are 156 sweets in a jar. The shopkeeper pours into the jar another 48 sweets. How many sweets are there altogether?



Brain-buster

In one sweet jar there are 451 dolly mixtures. In another sweet jar there are 370 jelly babies. A child buys 30 dolly mixtures and 40 jelly babies. How many dolly mixtures and jelly babies are there now in total?