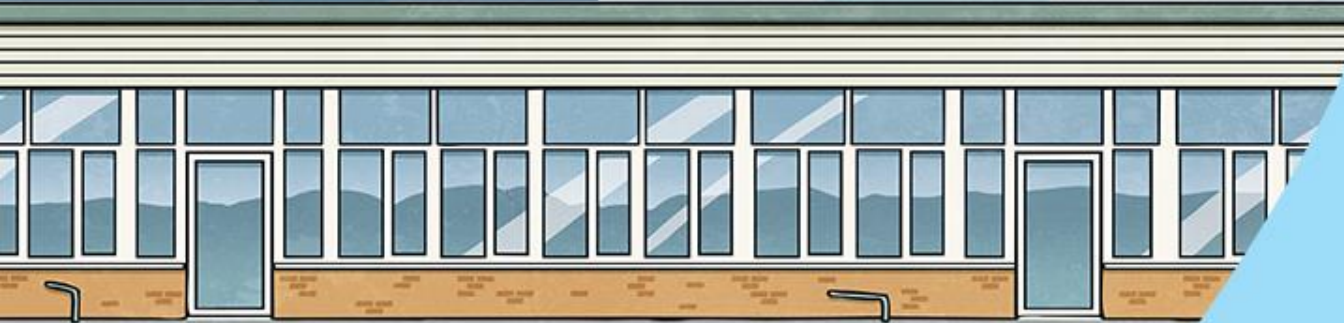


# Diving into Mastery



## Add Two 3-Digit Numbers – Not Crossing 10 or 100

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# Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



**Diving**



**Deeper**



**Deepest**

These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

# Aim

- Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction.



Complete the addition calculation that is shown here.

$$\boxed{421} + \boxed{237} = \boxed{658}$$

H	T	O



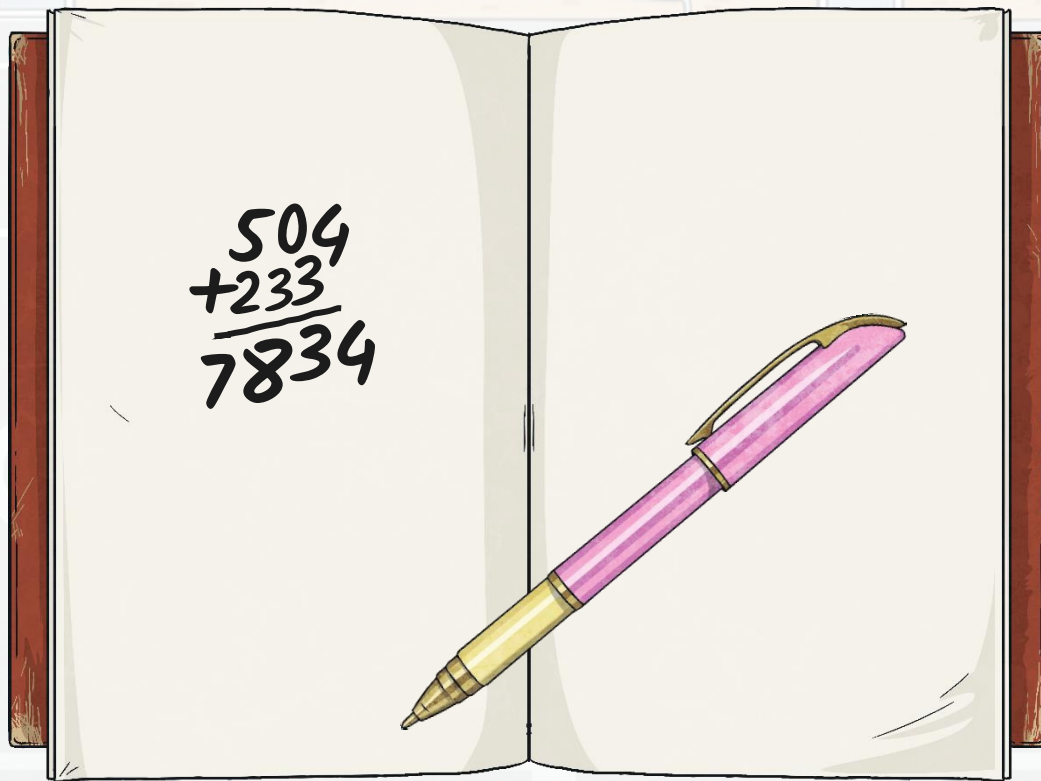
How would you fill this grid in to calculate  $537 + 152$ ?

	5	3	7
+	1	5	2
	6	8	9





Finn calculates  $504 + 233$ :



He is incorrect.  
Discuss with a partner what mistake you think he has made.



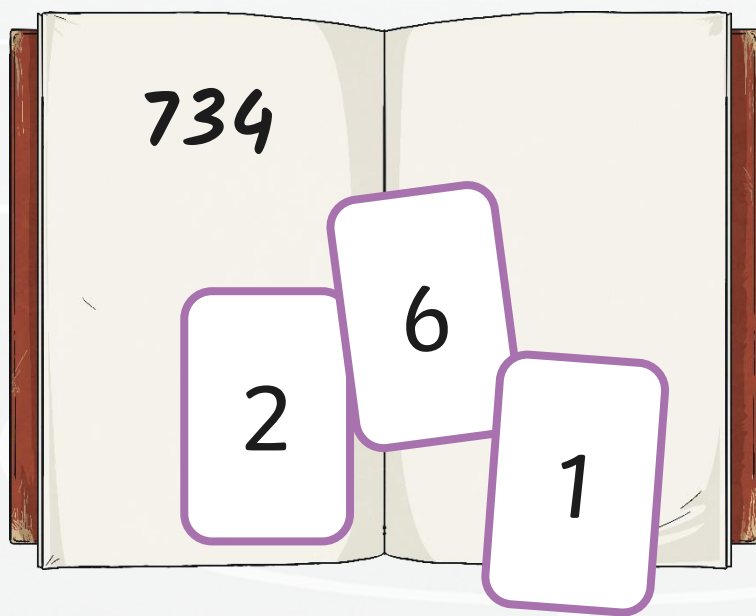
Fill in the missing digits in this column addition calculation.

	4	1	4
+	1	5	3
	5	6	7





Sasha writes down the number 734.  
She has the digit cards 2, 6 and 1.



She uses her digit cards to make a 3-digit number. When she adds that number to 734, she gets 896.

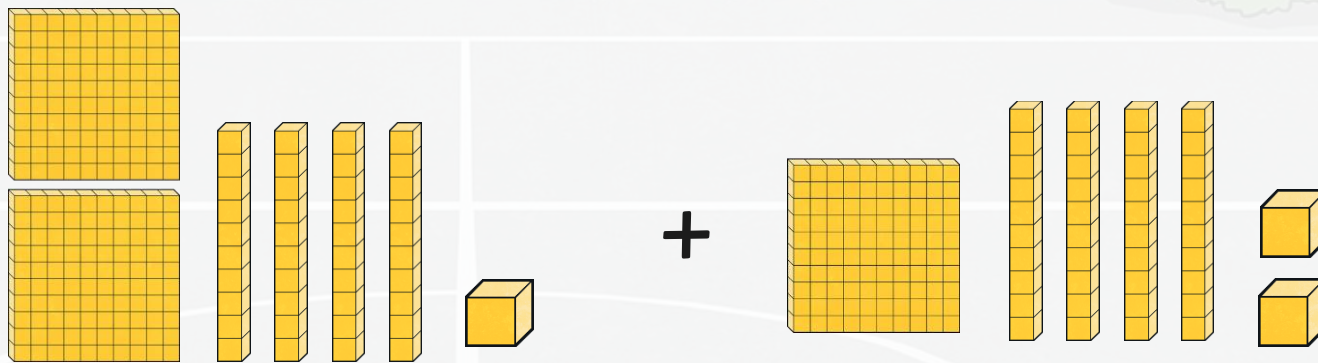
**What number did she make with her digit cards?**

**162**





Chelsea used some base ten to make an addition calculation with a total of 383.

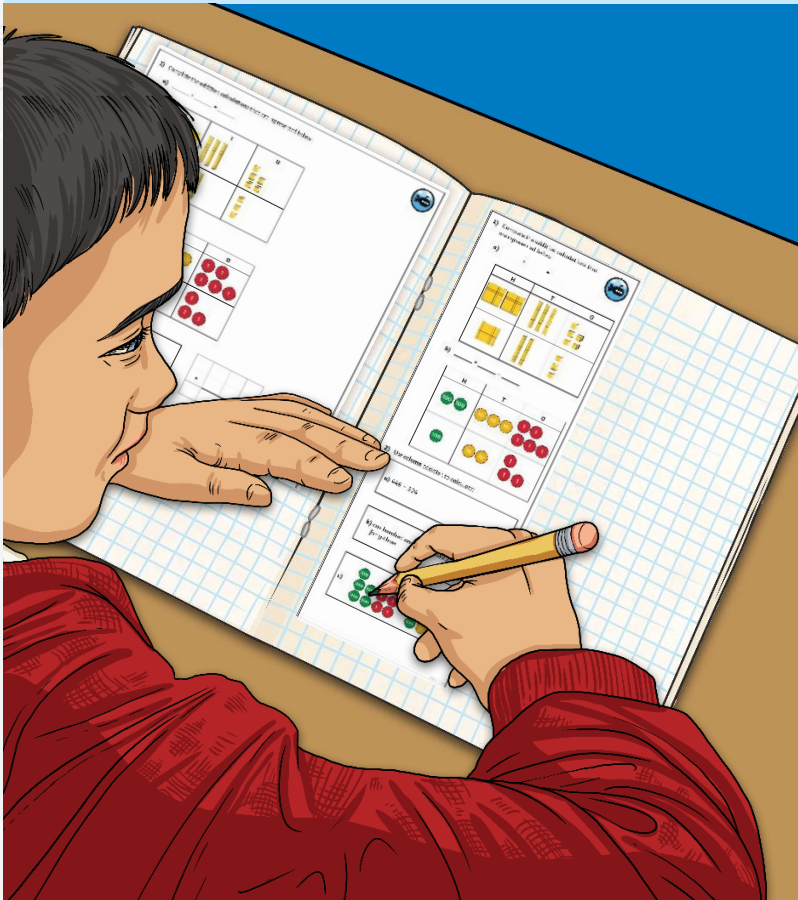


Using the same base ten pieces that Chelsea has, can you make two 3-digit numbers that have a total of 383?  
One of the numbers must have 2 hundreds.

**Is there more than one correct answer? Why do you think this is?**

# Add Two 3-Digit Numbers

Dive in by completing your own activity!



1) Malia wrote a number on a card. She has 4 tens and 2 ones. She uses base ten blocks to represent the number. The total value of the blocks is 42. What 3-digit number does she have? Explain the total value of the blocks.

2) So used 4 tens and 2 ones to make a number. Using the base ten blocks, write the number. One of the blocks is missing.

1) Complete the addition calculations that are represented below.

a)  $\quad + \quad = \quad$

H	T	O

b)  $\quad + \quad = \quad$

H	T	O

2) Use column addition to calculate:

a)  $445 + 324$


b) one hundred and fifty-six add six hundred and forty-three


c)


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# Need Planning to Complement this Resource?

## National Curriculum Aim

Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction.

For more planning resources to support this aim, [click here](#).

The collage displays various educational resources for addition and subtraction. Key elements include:

- Pruning the Garden:** A subtraction problem: 
$$\begin{array}{r} \text{HTD} \\ 684 \\ - 257 \\ \hline 27 \end{array}$$
- Gardening Equipment:** A tag indicating "171p off".
- Parcel Delivery:** A subtraction problem: 
$$\begin{array}{r} 573 \\ - 285 \\ \hline 288 \end{array}$$
- Sorting Office:** A subtraction problem: 
$$\begin{array}{r} 28 \\ 45 \\ - 32 \\ \hline 32 \end{array}$$
- Sorting Office:** A subtraction problem: 
$$\begin{array}{r} 4 \\ 7 \\ - 43 \\ \hline 29 \end{array}$$

Twinkl Planit is our award-winning scheme of work with over 4000 resources.



