



**THIRD SPACE**  
LEARNING



# HELLO!

Today we are going to revise addition and subtraction (whole numbers)

## Arithmetic Warm Up

Use the space under  
question 3 to show  
your working out.

1.  $979 + 100 =$

2.

$= 435 - 30$

3.

$$\begin{array}{r} 472 \\ - 89 \\ \hline \end{array}$$



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## Revision on addition and subtraction

Today we are going to revise how to:



add and subtract whole numbers using the column method



## Revision: Addition and Subtraction

What is  
important to  
remember when  
setting out  
column  
addition?



Solve these calculations using the quickest method!  
Explain how you work out the answer!

1.  $4,985 + 37$


2.  $1,743 - 445$



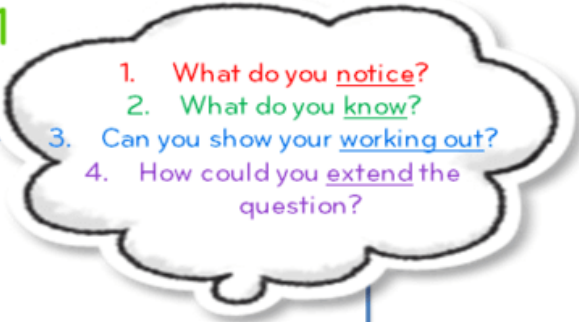

Complete

## Question 1

A pack of paper has 150 sheets.

4 children each take 7 sheets.

How many sheets of paper are left in the packet?

- 
1. What do you notice?
  2. What do you know?
  3. Can you show your working out?
  4. How could you extend the question?

## Question 2

A book has five stories in it.  
This is the contents page.

Contents	
	page
Rocket Ship	5
Night Journey	17
Secret Palace	25
Jack	41
Deep Water	59

Deep Water finishes on page 68

Which is the longest story?

1. What do you notice?
2. What do you know?
3. Can you show your working out?
4. How could you extend the question?

## Revision: Puzzles

Puzzles allow us to use our understanding and logic to help us to find the answers.



What would you first think about when starting this question?



This puzzle involves missing signs.

In these calculations, each missing sign is a  $+$  or a  $-$

Write the missing signs in the circles.

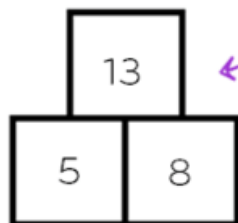


$$8 \bigcirc 7 \bigcirc 6 \bigcirc 5 = 2$$



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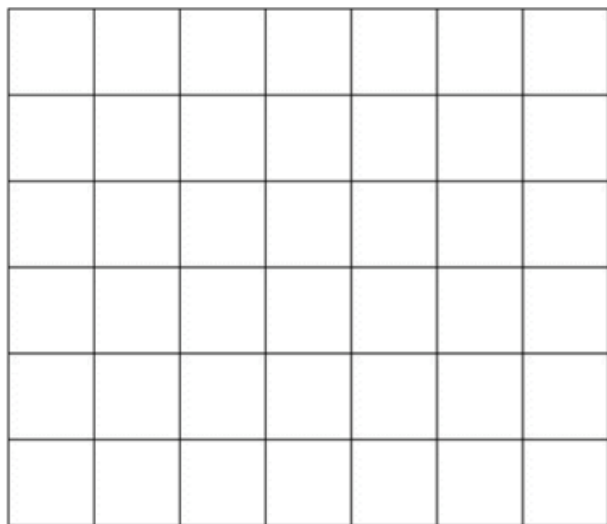
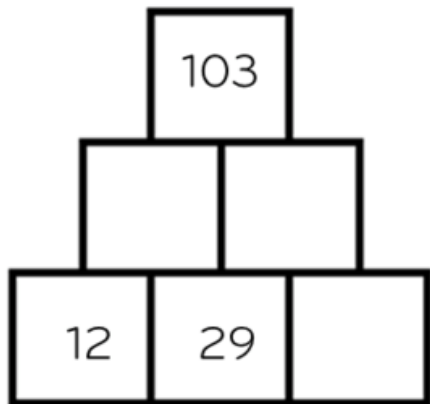
## Revision: More puzzles



The square above is the sum of the two squares directly below.



Complete the missing numbers.





## Question 3



Complete

Write the four missing digits to make this **addition** correct.

$$\begin{array}{cccc} \square & 6 & \square & 8 \\ + & 3 & \square & \square \\ \hline 9 & 0 & 1 & 9 \end{array}$$

1. What do you notice?
2. What do you know?
3. Can you show your working out?
4. How could you extend the question?




Complete

## Question 4

Here are five digit cards.



Use all five digit cards once to make this sum correct.


$$\begin{array}{r} \phantom{0} \square \\ + \begin{array}{r} \square \square \\ \square \square \end{array} \\ \hline 60 \end{array}$$

1. What do you notice?
2. What do you know?
3. Can you show your working out?
4. How could you extend the question?

## Let's review:



I can complete addition and subtraction of whole numbers using the column method.

Draw a circle around the smiley face to show how you feel about what we've just been doing.



## CHALLENGE



Complete

A new swimming pool holds 463,000 litres of water.

The pool takes 3 days to fill.

Complete the table below.

Day 1	Day 2	Day 3
154,594	154,594	litres

1. What do you notice?
2. What do you know?
3. Can you show your working out?
4. How could you extend the question?

# Use formal methods to add whole numbers with more than four digits

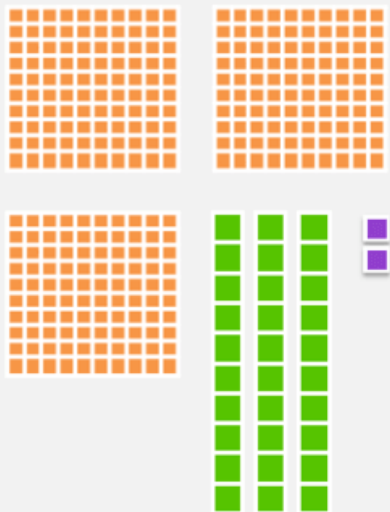
Complete this column addition:  $237,478 + 409,625 + 25,381$

	100 000s	10 000s	1000s	100s	10s	1s
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
+	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<hr/>						
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<hr/>						

Check your answer by rounding all the numbers to the nearest 100,000.

# Subtract 3-digit numbers using exchanging when necessary

There are 332 squares. Take away 175.



	100s	10s	1s
	3	3	2
-	1	7	5
<hr/>			
<hr/>			

## Use formal methods to subtract whole numbers with more than four digits

Complete this column subtraction:  $743,735 - 319,627$

	100 000s	10 000s	1000s	100s	10s	1s
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
-	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<hr/>						
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<hr/>						

Check your answer by rounding all the numbers to the nearest 100,000



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## Choose the correct operation for each step



Write



or



to show which operation you would use.

How many  
altogether?

How much left over?

What is the  
difference  
between...?

How many fewer?

How many in total?

Find the sum of...