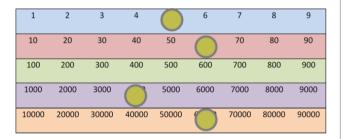


## Add More than 4-digits

#### Reasoning and Problem Solving

Amir is discovering numbers on a Gattegno chart.

He makes this number.



Amir moves one counter three spaces on a horizontal line to create a new number.

When he adds this to his original number he gets 131,130

Which counter did he move?

Work out the missing numbers.

	?	4	?	3	?
+	2	?	5	?	2
	7	8	5	2	9



# Subtract More than 4-digits

## Reasoning and Problem Solving

Eva makes a 5-digit number.

Mo makes a 4-digit number.

The difference between their numbers is 3,465

What could their numbers be?

Rosie completes this subtraction incorrectly.

28701 -<u>7621</u> 21180

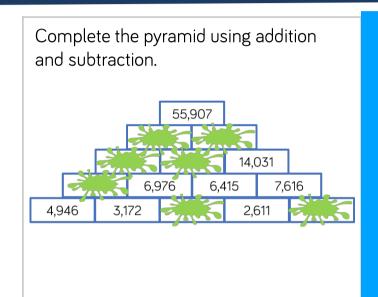
Explain the mistake to Rosie and correct it for her.

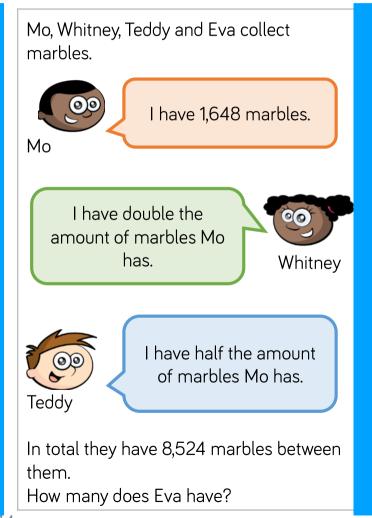
#### Year 5 | Autumn Term | Week 4 to 5 - Number: Addition & Subtraction



#### **Inverse Operations**

#### Reasoning and Problem Solving







## **Multi-step Problems**

## Reasoning and Problem Solving

A milkman has 250 bottles of milk.

He collects another 160 from the dairy, and delivers 375 during the day.

How many does he have left?

(0)

Tommy

My method:

$$375 - 250 = 125$$

$$125 + 160 = 285$$

Do you agree with Tommy? Explain why.

On Monday, Whitney was paid £114

On Tuesday, she was paid £27 more than on Monday.

On Wednesday, she was paid £27 less than on Monday.

How much was Whitney paid in total?

How many calculations did you do?

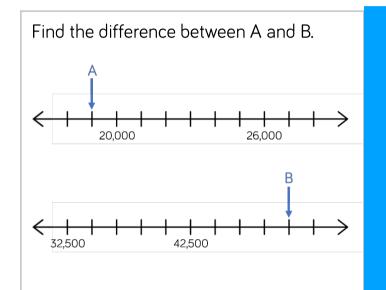
Is there a more efficient method?

#### Year 6 | Autumn Term | Week 3 to 6 - Number: Four Operations

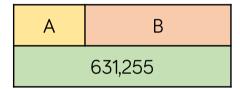


## Add & Subtract Integers

### Reasoning and Problem Solving



Here is a bar model.



A is an odd number which rounds to 100,000 to the nearest ten thousand. It has a digit total of 30

B is an even number which rounds to 500,000 to the nearest hundred thousand.

It has a digit total of 10

A and B are multiples of 5.

What are possible values of A and B?