

Addition and Subtraction Knowledge Organiser

Maths

Mental Methods

Can I work it out in my head, with apparatus or with jottings?

Mathematical Symbols

+

add

-

subtract

=

is equal to

Addition

Subtraction

Partition it

$$3424 + 132 = 3556$$

$$3000 + 0 = 3000$$

$$400 + 100 = 500$$

$$20 + 30 = 50$$

$$4 + 2 = 6$$

$$5000 - 1000 = 4000$$

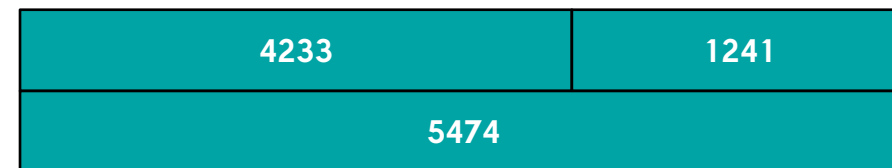
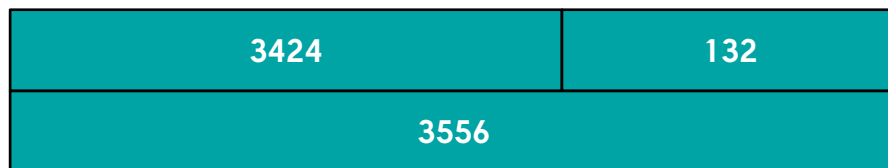
$$400 - 200 = 200$$

$$70 - 40 = 30$$

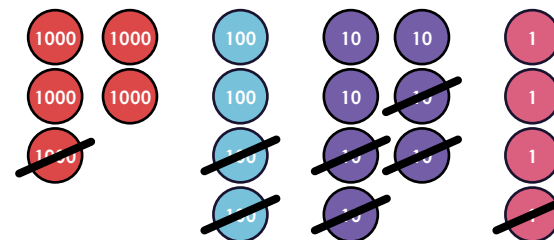
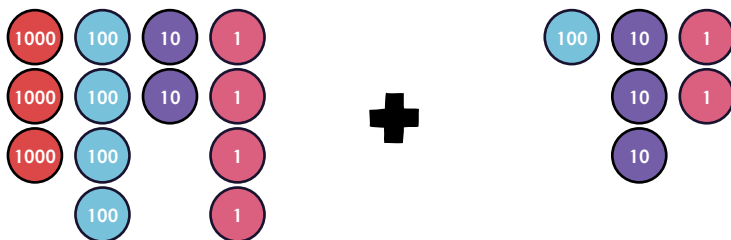
$$4 - 1 = 3$$

$$5474 - 1241 = 4233$$

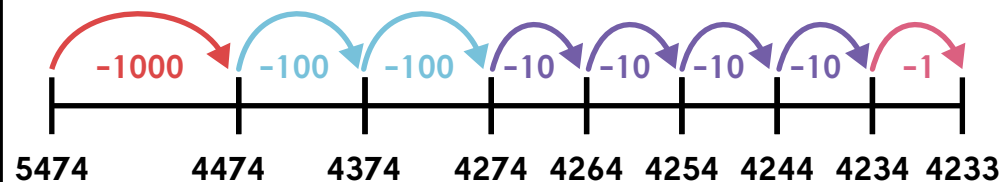
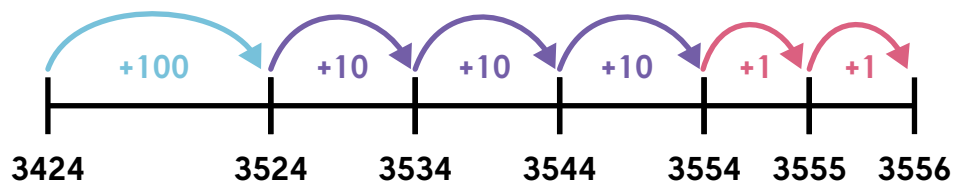
Bar model



Use apparatus



Number line



Written Methods

Do I need to use a formal method?

Column Addition

Th	H	T	O	.	tenths	hundredths	
5	7	2	1	.	3	5	
+	4	0	5	2	.	1	2
	9	7	7	3	.	4	7

Use the place value headings to make sure you set out your numbers correctly.

Remember

Always start in the right column when you are solving written addition and subtraction problems. Add the numbers in each column.

Don't forget the decimal point in your answer!

With Exchange

	Th	H	T	O
	5	7	2	9
+	3	3	5	3
	9	0	8	2
	1		1	

$$9 + 3 = 12$$

12 is 1 ten and 2 ones. We put the 2 in the ones column. We carry the 1 ten over to the tens column and add it to the rest of the tens.

Column Subtraction

	Th	H	T	O	.	tenths	hundredths
	5	7	9	5	.	3	5
-	4	0	5	2	.	1	2
	1	7	4	3	.	2	3

The largest number always go first in a subtraction calculation.

Don't forget the decimal point in your answer!

With Exchange

	Th	H	T	O
	5	7	9 ⁸	2 ¹
-	5	6	5	5
	0	1	3	7

$$2 - 5 =$$

We can't complete this calculation without going into negative numbers. We need to exchange.

It's ok to have a zero in your answer. This just means we have no thousands in our answer.

We exchange 1 ten for 10 ones. This means we now have 8 tens and 12 ones.

