Addition and Subtraction

Knowledge Organiser

Key Vocabulary
Add
Total
Plus
Sum
More
Altogether
Difference
Subtract
Less
Minus
Take away
Mentally, Orally
Column Addition
Column Subtraction
Exchange
Estimate
Inverse operation
Solve problems
Number facts
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Addition and Subtraction Methods

Add 4-digit numbers

No exchange

5162

3102
+3427
8589

Starting with the ones, add each column in turn.

One exchange

+	1 51 <mark>6</mark> 2 34 9 7
	8659

Starting with the ones, add each column in turn. When adding 6 tens + 9 tens = 15 tens = 1 hundred + 5 tens Place 1 hundred under the hundreds

answer and 5 tens in the answer.

Multiple exchanges

	5864		
+	3497		
	9361		

Starting with the ones, add each column in turn. Exchange tens, hundreds and/ or thousands as required.

Subtract 4-digit numbers

No exchange

	5789
-	3421
Π	2368

Starting with the ones, subtract each column in turn.

One exchange

6 1	Starting with the ones, subtract each
6 1 5 74 9	column in turn. When subtracting 4
- 34 7 1	tens -7 tens, exchange 1 hundred to
2278	make:
	14 tens – 7 tens = 7 tens

Multiple exchanges

6 ¹³ 1 5 74 2	Starting with the ones, subtract each column in turn. Exchange
- 3476	tens, hundreds and/ or thousands
2266	as required.

-2000

Efficient subtraction



Calculate 6000 - 3617 = 2383

Addition and Subtraction

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Add and Subtract 1s, 10s, 100s, 1000s

Round to Estimate

Here is the number 3124



Add 2 thousands = 5124

Add 5 hundreds = 5624

Subtract 2 tens = 5604

Add 5 ones = 5609

Here is the number 6708

Thousands	Hundreds	Tens	Ones
6	7	0	8

Add 3 thousands = 9708

Subtract 4 hundreds = 9308

Add 5 tens = 9358

Subtract 7 ones = 9351

Crossing ones, tens or hundreds

5**39**2 + **4** tens = 5**43**2

crossing tens

5126 - 600 = 4526

crossing hundreds

When crossing ones, tens or hundreds, more than one digit will change.



1635 + 386 = 2021

Round to the nearest ten

1640 + 390 = 2030

Round to the nearest hundred

1600 + 400 = 2000

Both give a reasonable estimate, but rounding the nearest ten is more accurate. 9362 - 5729 = 3622

Round to the nearest hundred

9400 - 5700 = 3700

Round to the nearest thousand

9000 - 6000 = 3000

Rounding to the nearest

hundred is much more accurate in this case.

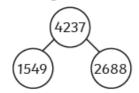
Checking Strategies

Using Inverse

3476		
2732	744	

3476 - 744 = 2732 can be checked using 2732 + 744 = 3476

This part whole shows the inverse calculations using these three numbers.



1549 + 2688 = 4237	2688 + 1549 = 4237
4237 - 1549 = 2688	4237 - 2688 = 1549

Adding in a different order

420 + 372 + 280 =

Change to

420 + 280 + 372 =

As 420 + 280 = 700

(because 42 + 28 = 70)

420 + 280 + 372 = 700 + 372 = 1072