Year 4 Addition and Subtraction Knowledge



add



+ plus

+3 5 sum









more





























addition

- add
- sum • total
- more plus
 - altogether

make

How many more to make...?

How many more is... than ...?

How much more is ...?

subtraction

- subtract minus
- take away

· difference between

- leave
- less

How many are left over?

How much less is... than ...?

How many fewer is...?

Add 4-digit numbers

No exchange

5162

+3427 8589 Starting with the ones, add each column in turn.

One exchange

51**6**2

Starting with the ones, add each column in turn. When adding

+34**9**7

6 tens + 9 tens = 15 tens = 1 hundred + 5 tens

86**5**9

Place 1 hundred under the hundreds answer and 5 tens in the answer.

Multiple exchanges

5864 +3497

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

9361 required. 111

Subtract 4-digit numbers

No exchange

5789

- 3421

Starting with the ones, subtract each column in turn.

2368

One exchange

6 1 5**74**9

Starting with the ones, subtract each column in turn. When subtracting 4 tens -7 tens, exchange 1 hundred to

- 34**7**1 22**7**8

make:

14 tens - 7 tens = 7 tens

We can estimate answers using near numbers.

E.g. 167-89 170 - 90 = 80

Near numbers:



Multiple exchanges

6¹³1 5742 - 3476

2266

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

Efficient subtraction

Calculate 6000 - 3617 = 2383



Add and Subtract 1s, 10s, 100s, and 1,000s

TH	Н	T	0
2	6	3	8

Checking Strategies

Using Inverse

	3	47	ť
273	2		

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

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



1549 + 2688 = 4237 4237 - 1549 = 2688	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



If I add ones to a number, I need to add it to the digit in the ones column.

The same applies if you are adding tens, hundreds or thousands - you add to the digit in that place value column.





If I add a multiple of 100 to the number above, the tens and ones will not change. The thousands will only change when the hundreds totals more than 9.