

Addition and Subtraction

Key Vocabulary	Addition and Subtraction Methods	
Add	Add 4-digit numbers No exchange 5162 +3427 8589 Starting with the ones, add each column in turn. One exchange 5162 +3497 8659 1 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 111 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 2368 Starting with the ones, subtract each column in turn. One exchange 61 5749 - 3471 2278 Starting with the ones, subtract each column in turn. When subtracting 4 tens -7 tens, exchange 1 hundred to make: 14 tens – 7 tens = 7 tens Multiple exchanges 6131 5742 - 3476 2266 Starting with the ones, subtract each column in turn. Exchange tens, hundreds and/ or thousands as required.
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		
	Efficient subtraction	
	Calculate 6000 – 3617 = 2383 -2 -80 -300 -2000 3617 3620 3700 4000 6000	

Addition and Subtraction

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

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

5392 + 4 tens = 5432 crossing tens

5126 - 600 = 4526 crossing hundreds

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

Round to Estimate

$$1635 + 386 = 2021$$

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

$$9400 - 5700 = 3700$$

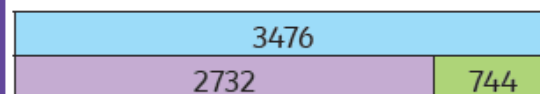
Round to the nearest thousand

$$9000 - 6000 = 3000$$

Rounding to the nearest hundred is much more accurate in this case.

Checking Strategies

Using Inverse



$$3476 - 744 = 2732 \text{ can be checked using}$$

$$2732 + 744 = 3476$$

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

$$420 + 280 + 372 =$$

$$\text{As } 420 + 280 = 700$$

$$(\text{because } 42 + 28 = 70)$$

$$420 + 280 + 372 = 700 + 372 = 1072$$