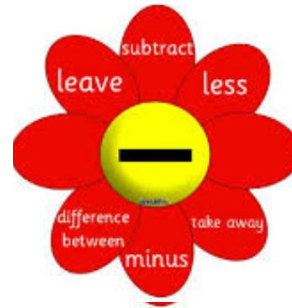




Autumn Term - Year 4 Maths - Addition and Subtraction



Previously Learned Vocabulary	
Words related to addition add/plus/more than	Words related to subtraction subtract/minus/take away/less than/ difference
Words related to the answer to an addition total/sum/altogether	
Estimate (y1)	Inverse (y2)
Exchange (y3)	associative
New Vocabulary	
Operation	Commutative



Add and subtract ones, tens, hundreds and thousands

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

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.



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

Round to estimate

$1635 + 386 = 2021$

Round to the nearest ten

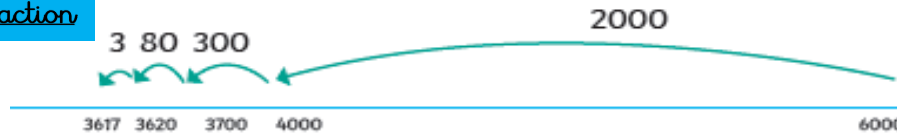
$1640 + 390 = 2030$

Round to the nearest hundred

$1600 + 400 = 2000$

Both give a reasonable estimate, but rounding the nearest ten is more accurate.

Efficient subtraction



Calculate $6000 - 3617 = 2383$

Checking strategies

Adding in a different order

$420 + 372 + 280 =$

Change to

$420 + 280 + 372 =$

As $420 + 280 = 700$

(because $42 + 28 = 70$)

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

Column subtraction

One exchange

$$\begin{array}{r} 6 \ 1 \\ 5749 \\ - 3471 \\ \hline 2278 \end{array}$$

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

$14 \text{ tens} - 7 \text{ tens} = 7 \text{ tens}$

Multiple exchanges

$$\begin{array}{r} 6 \ 131 \\ 5742 \\ - 3476 \\ \hline 2266 \end{array}$$

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

Column addition

Exchange once

5162

+3497

8659

1

Regroup multiple times

5864

+3497

9361

111

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 equal sign on the hundred column and the 5 tens in the answer.

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