



# 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)

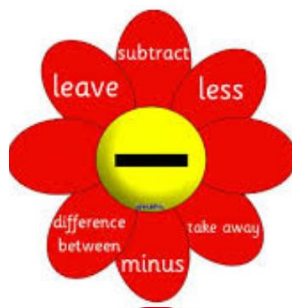
Exchange (y3)

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

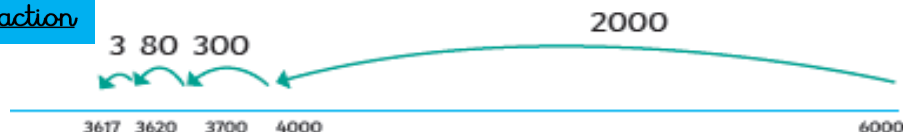
1640 + 390 = 2030

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

$$420 + 280 + 372 =$$

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

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

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

## Column subtraction

### One exchange

$$\begin{array}{r} 61 \\ 5749 \\ - 3471 \\ \hline 2278 \end{array}$$

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

14 tens - 7 tens = 7 tens

### Multiple exchanges

$$\begin{array}{r} 6131 \\ 5742 \\ - 3476 \\ \hline 2266 \end{array}$$

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

## Column addition

### Exchange once

$$\begin{array}{r} 5162 \\ + 3497 \\ \hline 8659 \\ \hline 1 \end{array}$$

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.

### Regroup multiple times

$$\begin{array}{r} 5864 \\ + 3497 \\ \hline 9361 \\ \hline 111 \end{array}$$

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