

# ADDITION and SUBTRACTION KNOWLEDGE ORGANISER Year 4

No Exchange

3868 - 2227 = 1641

3868

1641

Starting with the ones,

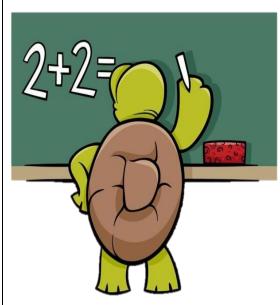
simply subtract each

column in turn.

**Efficient Subtraction** 

- 2227

### **Overview**



## Addition and Subtraction we learn:

-Add and subtract 1s, 10s, 100s and 1000s.

-Add and subtract two 3-digit numbers

-Add and subtract two 4-digit numbers

-Efficient subtraction

-Estimate answers -Checking strategies

Addition and Subtraction is useful learning because it is used in many areas of everyday life - e.g. shopping, cooking, or playing games. It also forms the basis for lots of other maths ideas.

Addition	Methods – Two 4-digit N		8 tens. Don't forget this from the hund the next calculo	dreds	
<u>No Exchange</u> 1584 + 2402 = 2986	<u>1 Exchange</u> 2575 + 5292 = 7867 2575	<u>2 Exchanges +</u> 2575 + 5292 = 7867 2016	2357 2360 2400 3000 5000 Add and Subtra	ct 1, 10, 100, 1000	
Starting with the ones, simply add each column in turn. Be sure to check over your answer for careless calculation	+ 5292 7867 1 Starting with the ones, add each column in turn. When calculating 7 tens plus 9 tens, the answer is above 10 tens (16 tens = 160). Place 6 tens as the answer and 1 hundred under the hundreds answer. Include this in the next calculation.	3916 +2779 6695 1 1 Starting with the ones, add each column in turn. Exchange tens, hundreds, or thousands as required. Don't forget to add the exchanged number into the next calculation.	Add and Subtract 1, 1 1000 100 100 10 10 1000 100 100 10 10 Add 2 thousands = 4451 Subtract Add 4 tens = 2491 Subtract Subtract Add 4 tens = 2491 Subtrac	10, 100, 1000 10 The number 2451 is shown. ract 3 hundreds = 2151 tract 1 one = 2450 or thousands, more	T To t Both s

Ke						Key Vocabulary		
Estimate	Sum	Add	Subtract	Altogether	Difference	Exchange	Column Method	Number Lin



- 1448 7225

Starting with the ones, subtract each column in turn.

When subtracting 3 ones -8 ones, exchange 1 hundred to make 13 tens take ds in n.



## 2 Exchanges +

# 3204 - 2652 = 552 <sup>2</sup>3204

- 2652

552

Starting with the ones, subtract each column in turn.

Exchange tens, hundreds, thousands as needed.

Don't forget to subtract the exchanged number from the next calculation.

# ounding and Checking

## Rounding

#### 1451 + 392 = 1,843

To the nearest ten - 1450 + 390 = 1,840

the nearest hundred - 1500 + 400 = 1,900

h give a sound estimate, but rounding to the nearest ten is more accurate.

# Checking

#### 3564 - 748 = 2.816

We can check this with the inverse:

2,816 + 748 = 3564

ne

Number Bond

Inverse