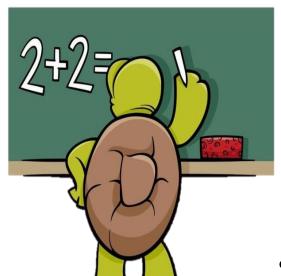
ADDITION and SUBTRACTION KNOWLEDGE ORGANISER







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 Numbers

No Exchange

1584 + 2402 = 2986

1584 + 24023986

Starting with the ones, simply add each column in turn.

Be sure to check over vour answer for careless calculation errors.

1 Exchange

2575 + 5292 = 7867

+5292

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.

2 Exchanges +

2575 + 5292 = 7867

+2779

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.

Subtraction Methods - Two 4-digit Numbers

No Exchange

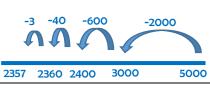
3868 - 2227 = 1641

3868 -22271641

Starting with the ones, simply subtract each column in turn.

Efficient Subtraction

5000 - 2643 = 2357



1 Exchange

8673 - 1448 = 7225

86**7**3 -14487225

Starting with the ones, subtract each column in turn.

When subtracting 3 ones -8 ones, exchange 1 hundred to make 13 tens -8 tens. Don't forget to take this from the hundreds in the next calculation.

2 Exchanges +

3204 - 2652 = 552

²3204

-2652552

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.

Add and Subtract 1, 10, 100, 1000/ Rounding and Checking

Add and Subtract 1, 10, 100, 1000

The

number 2451 is shown.

Subtract 3 hundreds = 2151 Add 2 thousands = 4451 Add 4 tens = 2491 Subtract 1 one = 2450

When crossing tens, hundreds or thousands, more than one digit will change, e.g.

2451 + 6 tens = 2511

2451 - 5 hundreds = 1951

Rounding

1451 + 392 = 1.843

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

To the nearest hundred -1500 + 400 = 1,900

Both 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

Key Vocabulary

Estimate

Sum

Add

Subtract

Altogether

Difference

Exchange

Column Method

Number Line

Number Bond

Inverse