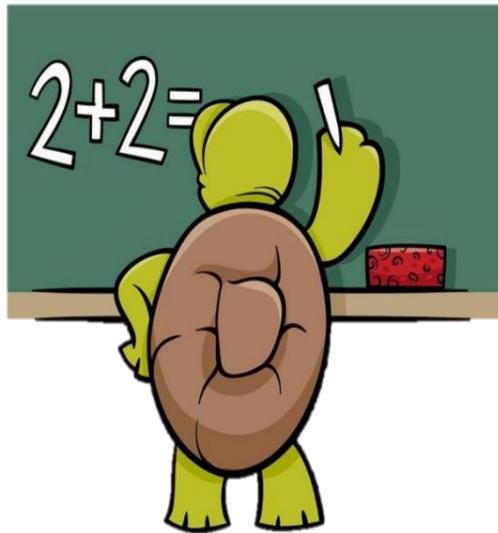




ADDITION and SUBTRACTION



Overview



Addition and Subtraction we learn:

- Add and subtract multiples of 100.
 - Add and subtract 3-digit and 1-digit numbers.
 - Subtract a 1-digit number from a 3-digit number.
 - Add and subtract 3-digit and 2-digit numbers.
 - Add and subtract 100s -Spotting patterns.
- 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.

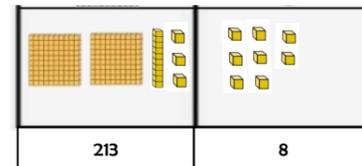
Subtraction Methods

3-digit and 1-digit numbers

Not crossing 10

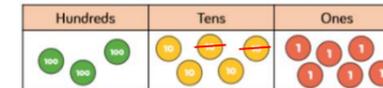


Crossing 10



3-digit and 2-digit numbers

Subtracting Tens



When crossing 10, we can use column addition or count in 10s mentally.

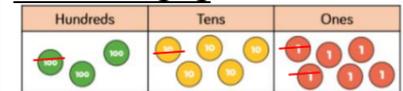
Crossing 10/ 100

$$\begin{array}{r} 4 \swarrow 348 \\ - 97 \\ \hline 451 \end{array}$$

Use exchanging for answers below zero. Remember to subtract the exchanged value from the next column.

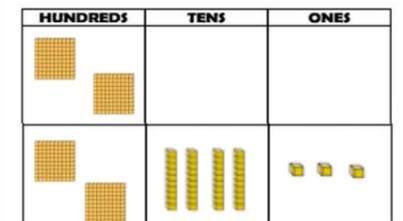
3-digit numbers

Not Exchanging



When exchanging/ crossing 10/100, we can use column subtraction, as shown below left, but with 3-digit minus 3-digit numbers).

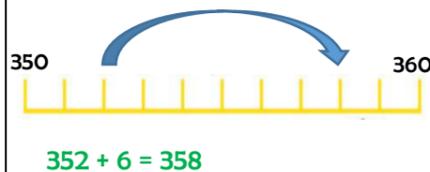
Adding 100



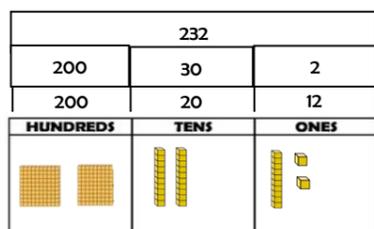
Addition Methods

3-digit and 1-digit numbers

Not crossing 10

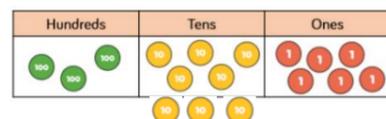


Crossing 10



3-digit and 2-digit numbers

Adding Tens



$356 + 30 = 386$ (5 tens plus 3 tens)

When crossing 10, we can use column addition or count in 10s mentally.

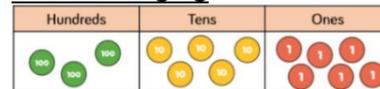
Crossing 10/ 100

$$\begin{array}{r} 677 \\ + 74 \\ \hline 751 \\ 11 \end{array}$$

Use exchanging for answers larger than 10. Remember to include this in the next calculation.

3-digit numbers

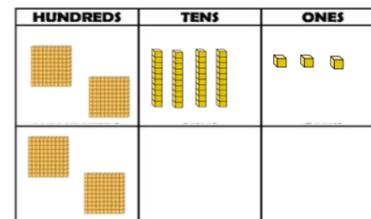
Not Exchanging



When exchanging/ crossing 10/100, we can use column addition, as shown below left, but with 3-digit plus 3-digit numbers).

Adding 100

$243 + 200 = 443$



Estimate

Being able to estimate using known facts helps us to check that answers are reasonable.

Estimating using near numbers

Estimate $221 - 78$

Near number to 221 = 220

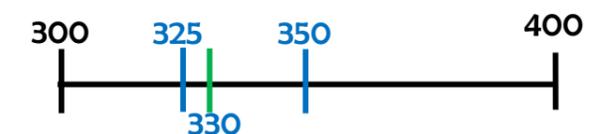
Near number to 78 = 80

$220 - 80 = 140$

Estimate = 140

Estimating marked numbers on a number line

Estimate the value of the green line



The student has added the blue lines to break down the hundred further, to give an estimate of 330.

Key Vocabulary

Estimate

Sum

Add

Subtract

Altogether

Difference

Exchange

Column Method

Number Line

Number Bond

Inverse