Basic Subtraction

How good you are in mathematics?

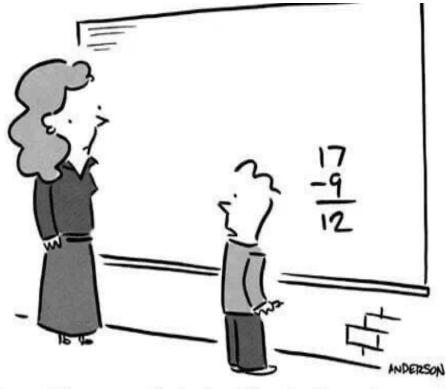
Me :



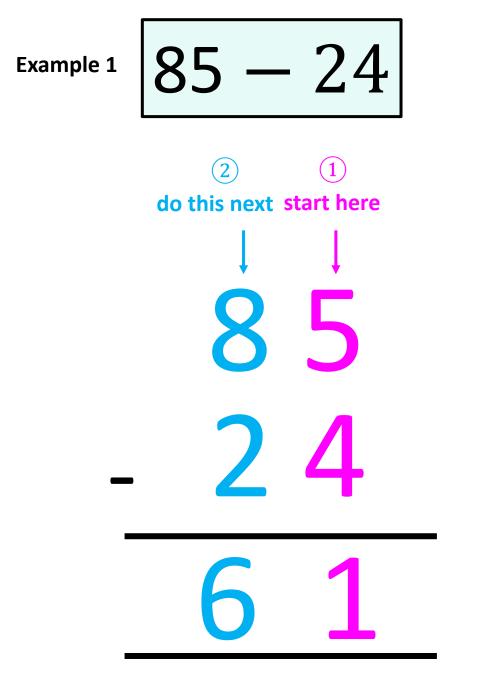
Scientist: students need 8-10 hours of sleep a day

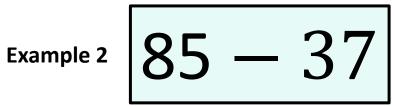
School:





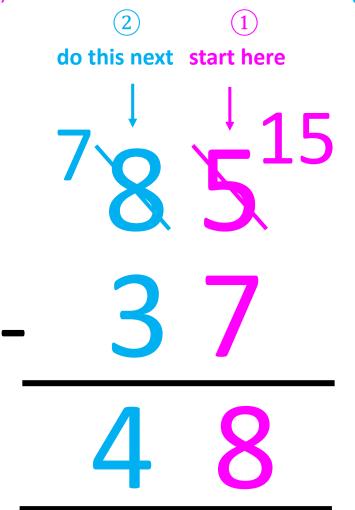
"I know it's wrong, I'm just waiting for the autocorrect."



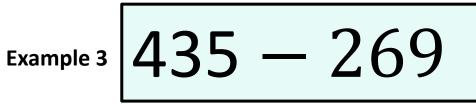


This is different to the last example:

For each calculation we always need a bigger number on top. Here we do not have that for the pink calculation, so we need to borrow and steal. We always borrow 10 (add 10) for the first calculation and steal 1 (subtract 1) for the next calculation



Method: borrow (add) a 10 steal (subtract) a 1

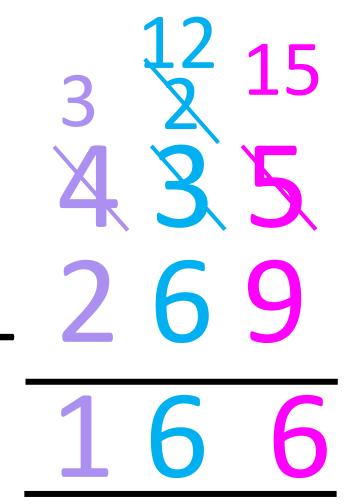


This is harder that the last example since we have to borrow and steal twice:

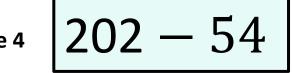
For each calculation we always need a bigger number on top. Here we do not have that for the pink calculation **AND** the blue calculation, so we need to borrow and steal.

Method : borrow (add) a 10 steal (subtract) a 1 This time we have to

repeat the process: borrow (add) a 10 steal (subtract) a 1



Example 4



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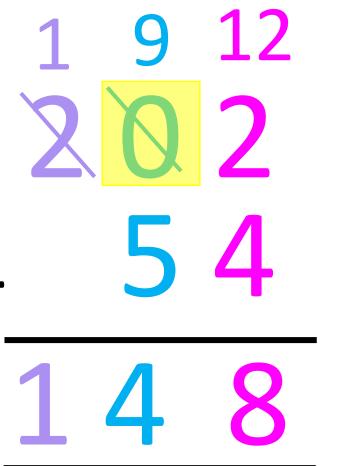
This is harder than the last example since we are dealing with a <mark>0</mark> when we steal which is a little more confusing:

Method 1

We proceed as usual, but here we need to take 1 away from 0. When we take away 1 from 0 we are basically taking 1 away from 10 and therefore we turn the 0 into a 9. When we make a 0 and 9, we then ALSO AUTOMATICALLY make the next number 1 less.

Method : borrow (add) a 10

steal (subtract) a 1 steal (subtract) a 1 again (since we made a 0 a 9)



Method 2

when stealing from a 0, combine it with the number to the left of it i.e. steal 1 from 20 to get 19

6

4

3400 - 2246Example 5

10

Method 1

We take away 1 from 0 we are basically taking 1 away from 10. We have to ALSO make the next number 1 less each time we change a 0 into a 9 and hence we and do it again



when stealing from a 0, combine it with the number to the left of it i.e. steal 1 from 40

Method :

borrow (add) a 10 steal (subtract) a 1 steal (subtract) a 1 again (since we made a 0 a 9)

Method 2

when stealing from a 0, combine it with the

number to the left of it i.e. steal 1 from 40

3400 - 2746Example 6

This is harder that the last example since we borrow and steal twice:

Method 1

We take away 1 from 0 we are basically taking 1 away from 10. We have to ALSO make the next number 1 less each time we change a 0 into a 9 and hence we and do it again

Method :

borrow (add) a 10 steal (subtract) a 1 steal (subtract) a 1 again We repeat the process: borrow (add) a 10 steal (subtract) a 1 again

Example 7

39000 - 26453

This is harder than the last example since we have successive 0's. Remember that with 0's we keep going:

Method 1

We take away 1 from 0 we are basically taking 1 away from 10. We have to ALSO make the next number 1 less each time we change a 0 into a 9 and hence we and do it again

Method 2

when stealing from a 0, combine it with the number to the left of it i.e. steal 1 from 900

Method :

borrow (add) a 10 steal (subtract) a 1 steal (subtract) a 1 again steal (subtract) a 1 again

Method 2

Note: This zero did not becomes a 9, since we were done after the 8 became a 7 and we start the process of **borrowin**g and stealing again

Method 1

Example 8

when stealing from a 0, combine it with the number to the left of it i.e. steal 1 from 80

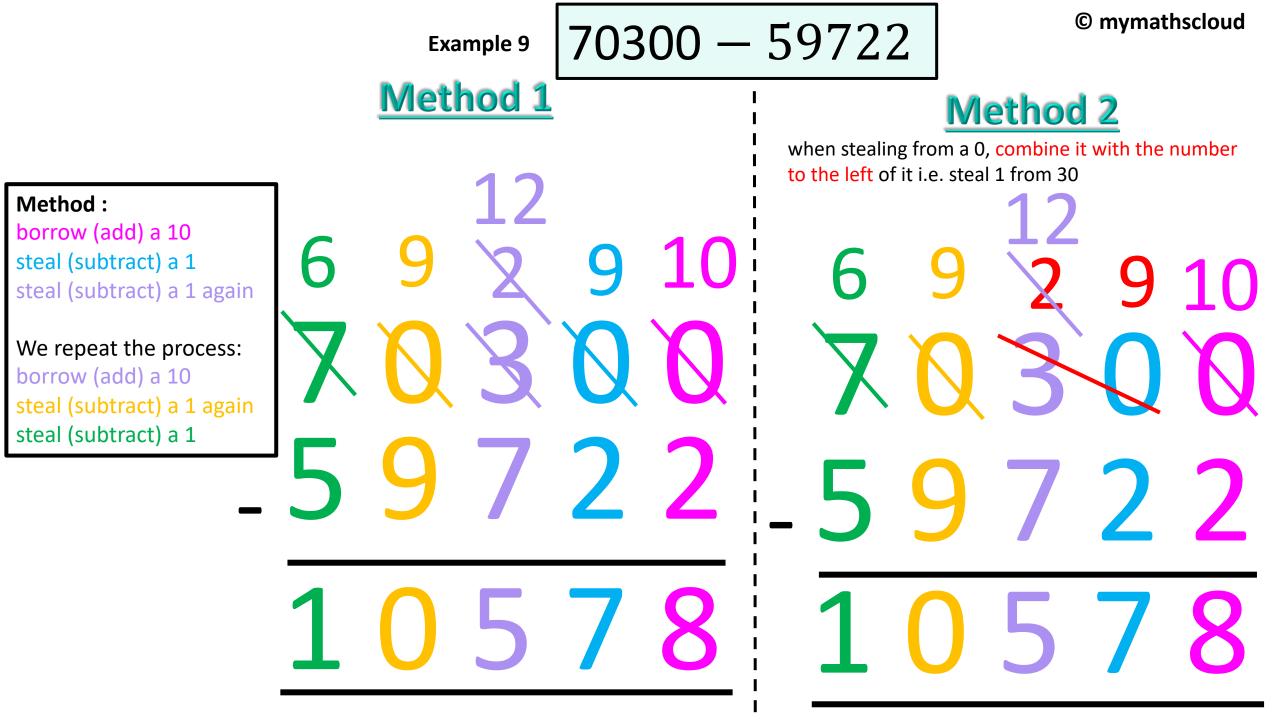
Method :

borrow (add) a 10 steal (subtract) a 1 steal (subtract) a 1 again

We repeat the process: borrow (add) a 10 steal (subtract) a 1

7 9 10 7 10 79 8 0 0 8 7225 ~ 6 **N 7 8 2 4 C**

80800 - 56722



15

Y

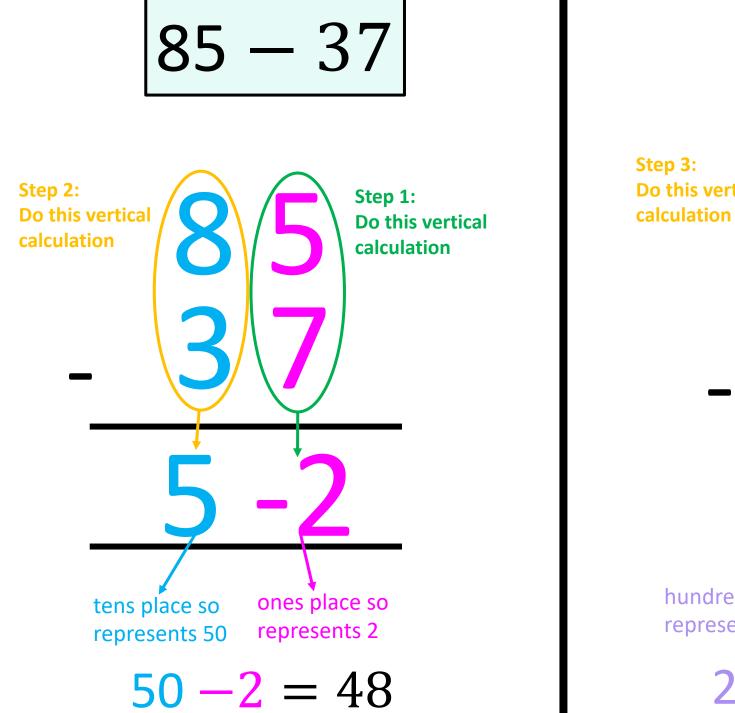
70005 - 54567 Example 10 Method 1 999 15 6 5 56 456

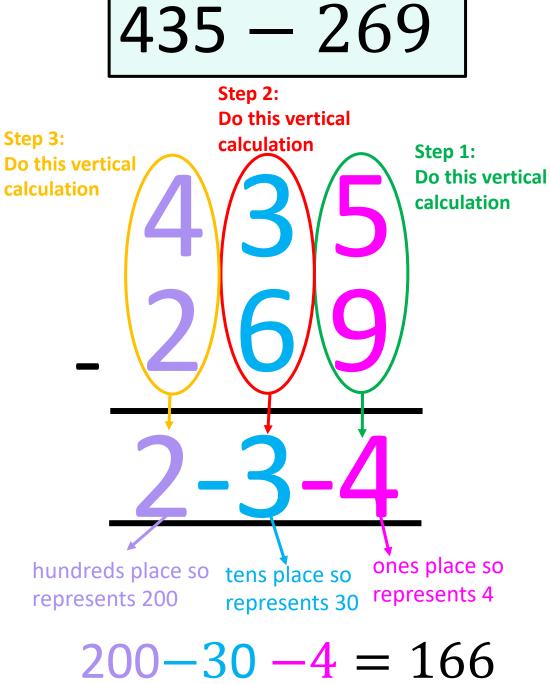
Method 2

when stealing from a 0, combine it with the number to the left of it i.e. steal 1 from 7000

EASY subtraction method without having to borrow

This involves knowing negative numbers and place value!

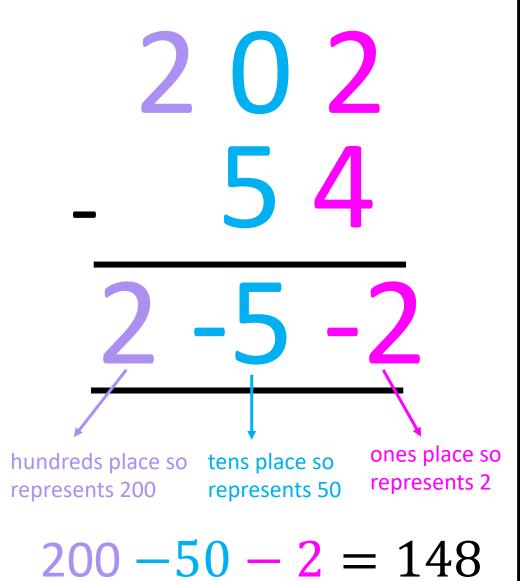




202 - 54

3400 - 2246

3400 2246 2 - 4 - 6thousands place so hundreds place so tens place so ones place so represents 1000 represents 40 represents 6 represents 200 1000 + 200 - 40 - 6 = 1154



We can also work horizontally

435 - 269

435 - 269 400-200+30-60+5-9

200-30-4

166

3400 - 2246

3400 - 2246 3000-2000+400-200+0-40+0-6

1000+200-40-6

1154

Another Trick - Dealing With Zeros

5000 - 2384

Instead of borrowing as usual

991 Subtract 1 from each number . 9999 5NNNSubtract 1 23832384Subtract 1 6