## 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."

## Example $185-24$

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## Example $2 \boldsymbol{3} 5$

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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
do this next start here

-


## 4



## 5

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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.


This is harder than the last example since we are dealing with a $\mathbf{0}$ when we steal which is a little more confusing:

## Method 1

We procced 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 }1
steal (subtract) a 1
steal (subtract) a }1\mathrm{ 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


## Examples $3400-2246$ <br> Method 1

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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 40


\section*{| Example 6 | $3400-2746$ |
| :--- | :--- |}

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 againMethod 2
when stealing from a 0 , combine it with the number to the left of it i.e. steal 1 from 40



## Example 7 <br> $39000-26453$

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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 :

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


Method 2
when stealing from a 0 , combine it with the number to the left of it i.e. steal 1 from 900



## Example 8 <br> $80800-56722$ Method 1

Note: This zero did not becomes a 9, since we were done after the 8

## Method 2

## 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

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

1


## Example 9 <br> $70300-59722$

## Method 2

when stealing from a 0 , combine it with the number to the left of it i.e. steal 1 from 30


910



7


## 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
steal (subtract) a 1

## Method 1

## Method 2

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


## EASY Sulbtraction noethod without haviug to borrow

This involves knowing negative numbers and place value!
$85-37$


$$
50-2=48
$$

## $435-269$

Step 2:
Do this vertical

Step 3: Do this vertical
calculation
calculation


## $202-54$

 202

## $3400-2246$



4


0

thousands place so represents 1000
hundreds place so tens place so ones place so represents 200 represents 40 represents 6

$$
1000+200-40-6=1154
$$

We can also work horizontally

## $435-269$

$$
\begin{gathered}
435-269 \\
400-200+30-60+5-9 \\
200-30-4 \\
166
\end{gathered}
$$

# $3400-2246$ <br> <br> 3400-2246 <br> <br> 3400-2246 <br> <br> $3000-2000+400-200+0-40+0-6$ <br> <br> $3000-2000+400-200+0-40+0-6$ <br> $$
1000+200-40-6
$$ <br> 1154 

$$
\begin{gathered}
\text { Another Trick } \\
\text { - Dealing With } \\
\text { Zeros }
\end{gathered}
$$

## $5000-2384$

Instead of borrowing as usual
49910 subtract 1 from each number


