## Year 4: Week 2, Day 5 <br> Column subtraction

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the Learning Reminders. They come from our PowerPoint slides.

2. Tackle the questions on the Practice Sheet. There might be a choice of either Mild (easier) or Hot (harder)!
Check the answers.

3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

4. Have I mastered the topic? A few questions to Check your understanding.
Fold the page to hide the answers!

## Learning Reminders

Subtract 3-digit numbers using expanded column subtraction.


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Subtract 3-digit numbers using expanded column subtraction.


## Practice Sheet Mild <br> Expanded subtraction

Use expanded column subtraction to solve these calculations.

1. $265-134$
2. $598-372$
3. $682-456$
4. $364-149$
5. $472-253$
6. $745-561$
7. $874-246$
8. $855-278$
9. $952-685$
10. $344-175$
11. $535-488$
12. $746-467$

## Challenge

Write a 3-digit number. Subtract it from 999. Now say the answer if you were to subtract it from 1000. Check using Frog to subtract it from 1000.
Repeat with another 3-digit number.

## Practice Sheet Hot

## Subtraction

Choose whether to use counting up (Frog) or expanded column subtraction.


## Practice Sheet Answers

## Expanded subtraction (mild)

1. $265-134=131 \quad 2 . \quad 598-372=226$
2. $682-456=226 \quad$ 4. $364-149=215$
3. $472-253=219 \quad 6$. $745-561=184$
4. $874-246=628 \quad 8 . \quad 855-278=577$
5. $952-685=267 \quad$ 10. $344-175=169$
6. $535-488=47$
7. $746-467=279$

## Subtraction (hot)

453-348 = 105
$958-482=476$
$674-427=247$
$607-572=35$
$826-645=181$
$803-641=162$
$725-532=193$
$520-315=205$
$847-673=174$
$630-527=103$

## A Bit Stuck?

## Parent or carer

Many children at this age find column subtraction very tricky. In this case, we give them more practice on subtracting using the strategy of counting up on a number line. This is the method that we all use when finding our change!

Pay $£ 10$ Spend $£ 7.25$ Count up from $£ 7.25$ to $£ 10$


So, help your child to do the calculations below by counting up. Here's the second one. 192-167


Answer is $3+22=25$

You can do every one on the sheet below like this.
This achieves a lot of good things!

- They rehearse the skill of adding to the next multiple of 10 - an absolutely essential skill for numerical fluency.
- They consolidate their understanding of how numbers work - counting from the multiple of 10 to the next number (This is the second hop.)
- They gain confidence, because you can do ANY subtraction this way
- It is a method which is particularly useful for money calculations.

> GOOD LUCK!




## Check your understanding

## Questions

Complete this calculation that uses 'column subtraction':

## $700 \quad 30 \quad 7$ <br> $-\underline{300 \quad 60 \quad 5}$

$\qquad$

Fill the gaps in this subtraction:
81 $\square$
$\square$ $7=$ $\square$ 46

## Check your understanding <br> Answers

Complete this calculation that uses 'column subtraction':
$\left.\begin{array}{|rrrr|}\hline 600 & 130 & \\ 780 & 38 & 7 \\ -300 & 60 & 5 \\ \hline 300 & 70 & 2\end{array}\right]$

Fill the gaps in this subtraction:
$81 \sqrt[3]{3} 7=346$
Probably best-solved by setting out as a column subtraction.

