## Year 5: Week 4, Day 2 <br> Written subtraction (1)

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

1. If possible, watch the PowerPoint presentation with a teacher or another grown-up.

OR start by carefully reading through the Learning Reminders.

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. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the Investigation...

## Learning Reminders



Learning Reminders


## Learning Reminders

Use decomposition or counting up to subtract pairs of 5-digit numbers.


What moves would be necessary for this subtraction?

We would have to move a $\mathbf{1 0 , 0 0 0}$ to the $\mathbf{1 0 0 0}$ s, then a $\mathbf{1 0 0 0}$ to the $\mathbf{1 0 0}$ s and then a $\mathbf{1 0 0}$ to the $\mathbf{1 0}$ s!
When we have this many moves to make, using Frog (counting up) would probably be a less error-prone strategy!


## Practice Sheet Mild

A table to show the numbers of hits on a website
Find the difference in numbers of website hits for each day.

| Day of the week | am | pm | Difference in number <br> of hits |
| :--- | :---: | :---: | :---: |
| Sunday | 36,432 | 57,478 |  |
| Monday | 19,758 | 24,642 |  |
| Tuesday | 21,427 | 32,846 |  |
| Wednesday | 16,375 | 25,342 |  |
| Thursday | 18,631 | 26,492 |  |
| Friday | 17,563 | 42,869 |  |
| Saturday | 33,642 | 58,567 |  |

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## Practice Sheet Hot <br> Subtracting pairs of 5 -digit numbers

Choose the method of subtraction you use.

| 1. $75,369-35,826=$ | 2. $83,580-26,317=$ |
| :--- | :--- |
| 3. $64,329-32,876=$ | 4. $72,463-48,725=$ |
| 5. $50,756-38,249=$ | 6. $76,371-24,393=$ |
| 7. $62,341-46,586=$ | 8. $83,036-34,152=$ |

## Challenge

Write two subtractions using 5-digit numbers. The first one should be one you would definitely do using Frog. The second should be one you would do using column subtraction. You must use all the digits $0-9$ in each pair of subtractions, e.g. 71.820-65.349 which is a good one for Frog!

## Practice Sheet Answers

A table to show the number of hits on a website (mild)
Sunday 21.046
Monday 4884
Tuesday $\quad 11.419$
Wednesday 8967
Thursday 7861
Friday 25,306
Saturday 24.925

Subtracting pairs of 5-digit numbers (hot)

1. $75,369-35,826=39,543$
2. $83,580-26,317=\mathbf{5 7 . 2 6 3}$
3. $64,329-32,876=31,453$
4. $\quad 72,463-48,725=\mathbf{2 3 , 7 3 8}$
5. $50,756-38,249=12,507$
6. $\quad 76,371-24,393=51,978$
7. $62,341-46,586=15,755$
8. $83,036-34,152=\mathbf{4 8 , 8 8 4}$

## Challenge

Children will have a range of answers to this challenge. Ensure they have made their first calculation one which should be done using Frog. HINT it is usually easier to use Frog if the larger number has 2 or 3 zeros in it, or is close to a multiple of 1000, like 5013.

## A Bit Stuck? Hops, skips and jumps

Things you will need:

- A pencil

What to do:

- Choose at least four subtractions to work out.

Draw a line from the smaller number to the bigger number. Use Frog to work out the difference between the two numbers.

- Remember to add up your hops and jumps at the end!

| $6000-5642$ | $6002-6938$ | $5000-3981$ |
| :--- | :--- | :--- |
| $4005-3964$ | $9000-4567$ | $6001-4983$ |

3004-2572


## S-t-r-e-t-c-h:

Work out the answers to 6003-4579 and 5010-3678.
Frog needs to work a bit harder for these!

## Learning outcomes:

- I can use Frog to subtract 4-digit numbers from multiples of 1000 (e.g. 4000-3786).
- I can use Frog to subtract 4-digit numbers when the larger number has zeros (e.g. 4002 - 3987).
- I am beginning to use Frog to subtract pairs of 4-digit numbers which are further apart from each other.


