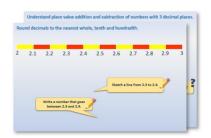
Year 5: Week 4, Day 3

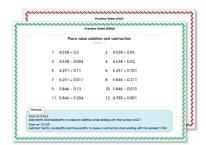
Written subtraction (2)

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

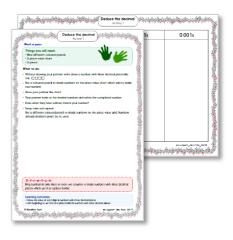
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



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

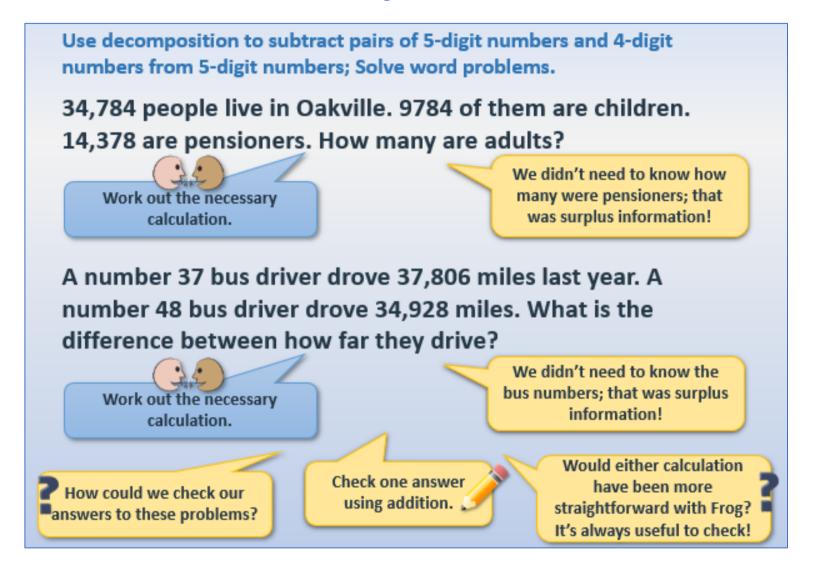
Use decomposition to subtract 4-digit numbers from 5-digit numbers.

45,782 – 7356 = 38,426

Write this as a vertical subtraction.
What do you think we need to watch out for when setting it out?

315 712 48782 - 7356 38426 Make sure that 1s are under 1s, 10s under 10s, 100s under 100s and so on.

Learning Reminders



219W2NA 24,784 – 9784 = 26,000 9782 = 826,42 – 308,75

Practice Sheet Mild Subtraction practice

- 7. 45,287 people live in South Oaktown. 38,145 people live in North Oaktown. What is the difference between their populations?
- 8. The odometer on a six-year old car shows 63,564 miles. In the first five years it had driven 52,382 miles. How many miles were driven last year?

Challenge

Write a word problem which involves subtracting 45,875 from 50,005. Then explain how you would do the subtraction if you were solving your own word problem!

Practice Sheet Hot Subtraction practice

- 7. There are 73,452 views of a cartoon on the Internet on Saturday. On Sunday, there are 5276 fewer views. How many views are there on Sunday?
- 8. A Boeing 777 plane flies 17,177km from Sydney via Singapore to London. So far it has flown 8345 kilometres. How much further does it have to go?
- 9. A hot-air balloon has travelled 23 miles at 12,364 feet. It descends 1534 feet, then another 4245 feet. What is its altitude now?
- 10. A lottery winner buys a holiday for all her family for £3448 and a new car for £5999. She won £35,478. How much is left?

Challenge

Write a word problem which involves subtracting 45,875 from 50,005. Then explain how you would do the subtraction if you were solving your own word problem!

Practice Sheet Answers

Subtraction practice (mild)

- 1. 64,784 21,529 = 43,255
- 2. 75,548 43,273 32,275
- 3. 86,347 33,720 = 52,627
- 4. 72.583 45.251 27.332
- 5. 56,421 24,175 = 32,246
- 6. 92,765 48,308 44,457
- 7. 45,287 38,145 = 7142. There is a difference of 7142 between their populations.
- 8. 63,564 52,382 = 11,182. The car drove 11,182 miles in the last year.

Challenge

There are many possible answers here.

Subtraction practice (hot)

- 1. 57,348 3762 = 53,586
- 2. 84,823 6248 = 78,575
- 3. 45,240 2758 = 42,482
- 4. 83,602 7478 = 76,124
- 5. 52,033 5674 = 46,359
- 6. 86,535 8645 = 77,890
- 7. 73,452 5276 = 68,176 views on Sunday.
- 8. 17,177 8345 = 8832. The plane has 8832km further to go.
- 9. 12,364 1534 4245 = 6585. The hot-air balloon is now at an altitude of 6585 feet.
- 10. 35,478 3448 5999 = 26,031. The lottery winner has £26,031 left.

Challenge

There are many possible answers here.

A Bit Stuck? Jump to Millennia

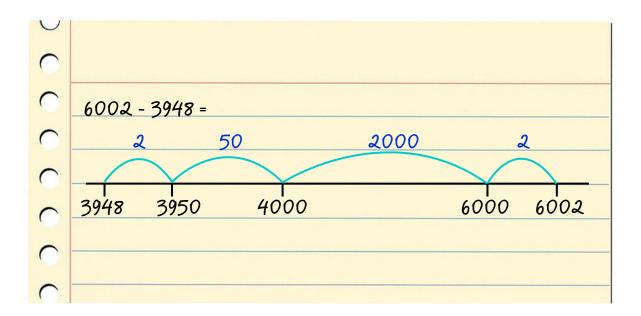
Things you will need:

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!



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

Write a subtraction where you would use Frog and a subtraction where you would use another method.

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, 4020 3987, 4200 3987).
- · I am beginning to decide when to use Frog and when to use another mental method.

© Hamilton Trust

Investigation

What to do:

%

لي

٠١٠

1/2

'n

٠١٠

V

%

W₂

Λ

لي

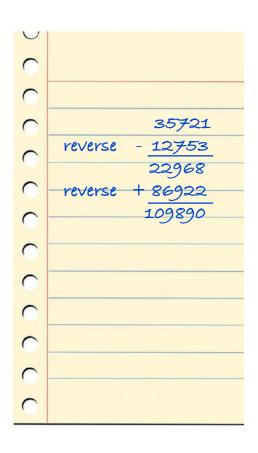
.1.

×

1/

٥.

- Write a 5-digit number. Reverse the digits and write the new number.
- Subtract the smaller from the larger.
- Reverse the digits of the answer and add this new number to the answer.
- What is the total?
- Start with a new number 5-digit number and repeat the steps above.
- Describe what happens.
- Can you have a go at explaining why this happens? It might help to simplify the problem by starting with a number with fewer digits. What happens with 2-digit numbers? 3-digit? 4-digit...?



40

V

3

4

%

%

4

٠١٠

٠١٠

3

+

%

© Hamilton Trust