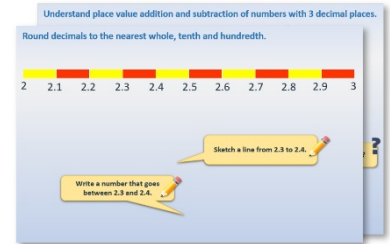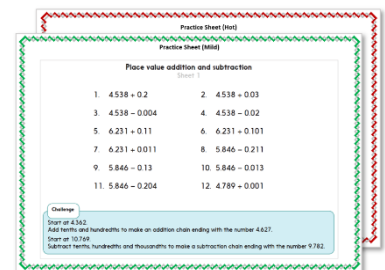# Year 5: Week 1, Day 3
Counting up to subtract; solve subtraction problems

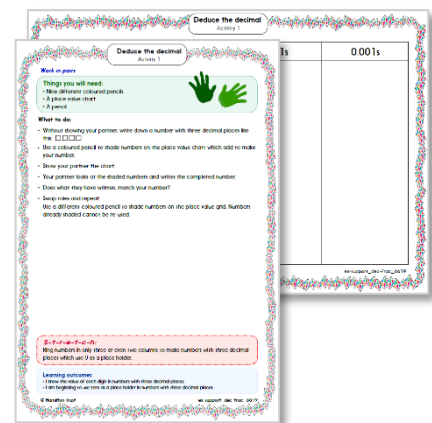**Each day covers one maths topic. It should take you about 1 hour or just a little more.**

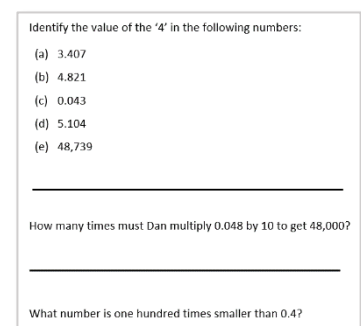1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.

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

Revising 'Counting up' to solve subtractions.

Find **524 - 378** using 'Frog'
(counting up to find a difference).

How far to the next 100?

How far to 500?

How far to 524?

22 **100** **24**

378 400 500 524

Finally, add the hops:
100 + 24 + 22 = 146

Subtraction: Why count up?

Choose counting up when vertical decomposition would result in lots of exchanging across columns...

```
  3 9 13
  4 0 3
- 2 6 7
-------
  1 3 6
```

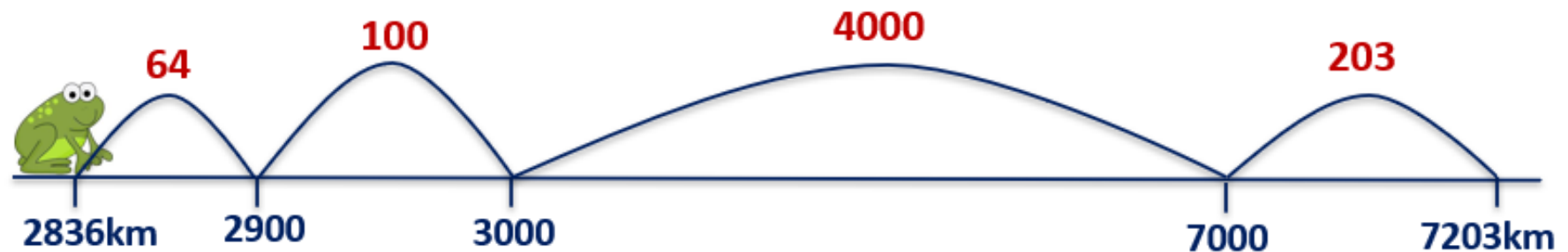**403 - 267 = 136**

103 + 30 + 3 = 136

3 **30** **103**

267 270 300 403

Learning Reminders

'Counting up' to solve subtraction problems.

Ally is cycling across America, a total distance of 7203km!
She has already covered 2836km, so how far is left to cycle...?!

Don't forget to add the hops:
4000 + 203 + 100 + 64 = **4367km**

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Practice Sheet for All
Multiples of 100

Draw number lines to show Frog solving these problems:

1.   1000 – 573
2.   2000 – 1958
3.   6000 – 5839
4.   4000 – 2748
5.   5000 – 2349
6.   9000 – 4275
7.   8000 – 5624
8.   7000 – 3453
9.   3000 – 2222
10.   6000 – 3333

Challenge

Look at your number lines. Can you find some ways to solve the problems with fewer jumps?

Practice Sheet Mild
Addition and subtraction problems

1. ☐ + 320 = 850

2. 1000 − ☐ = 678

3. 920 − ☐ = 480

4. ☐ − 420 = 370

5. 3200 + ☐ = 7800

6. 7000 − ☐ = 4579

7. 9400 − ☐ = 4900

8. ☐ − 2300 = 5800

9. Adam has 520 health points. He finds a potion and ends up with 770 health points. How many points did he earn from the potion?

10. Caitlin has 3475 experience points. She needs 5000 experience points to enter the next world. How many more experience points does she need?

11. Sasha lost 240 health points. Now she has 570 health points. How many health points did she have to start with?

12. Niall had 4500 experience points. By the end of the school holidays, he had 7200 experience points! How many experience points did he gain?

Practice Sheet Hot
Addition and subtraction problems

1. $4500 + \boxed{} = 7200$

2. $8100 - \boxed{} = 4600$

3. $7000 - \boxed{} = 3542$

4. $\boxed{} - 3400 = 2700$

5. Stefan has 4783 health points. He was at full health at 8000 points. How many points has he lost?

6. Phoebe has 460 health points. She drinks a green potion worth 240 points and a blue potion. She ends up with 950 health points. How many points was the blue potion worth?

7. Ahmed earns 4700 experience points and now has 9200 experience points. How many points did he have before?

8. Charmaine has 7300 experience points. She needs 9000 points to get the next level. Should she choose to try and solve a puzzle worth 1800 points or a puzzle worth 1600 points?

9. Toby has 3400 health points. He drinks potions worth 2300 and 1600 points. He wants to get to full health which is 8000 points. How many more points will he need?

10. Write your own computer game word problem to go with $\boxed{} + 3600 = 8400$.