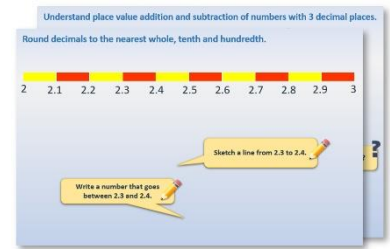


Year 4: Week 2, Day 4

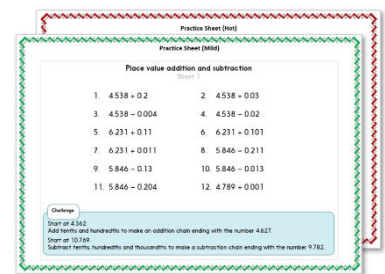
Subtraction using Frog

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

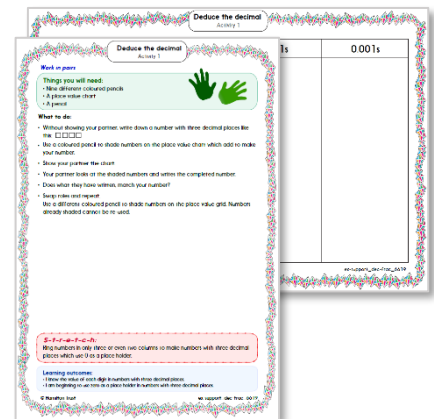
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



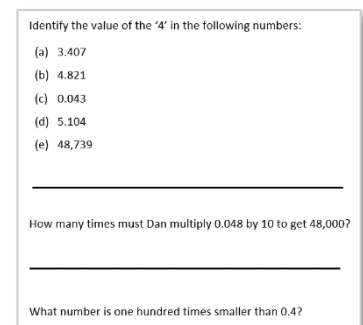
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



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

Count up to solve 3-digit subtractions.

Let's work out $524 - 378$
using Frog.

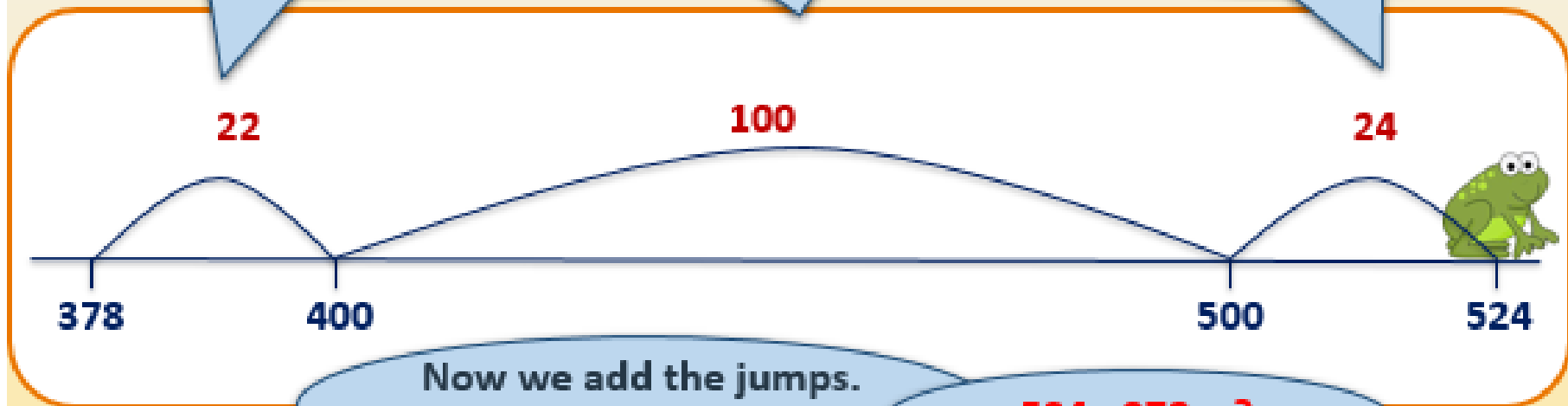


First we draw a number line
and mark on 378 and 524...

Frog starts on
378. How far to
the next 100?

How far to 500?

How far to 524?



Now we add the jumps.


$$100 + 24 + 22 = ?$$

$$524 - 378 = ?$$

Learning Reminders

Count up to solve 3-digit subtractions.

Some cyclists are cycling from John O'Groats in northern Scotland to Land's End in Cornwall, over 10 days. It's **874 miles!** So far, they have cycled **625 miles.** How far have they still got to cycle?



How can we find the **difference** between 874 and 625?

We can use Frog!

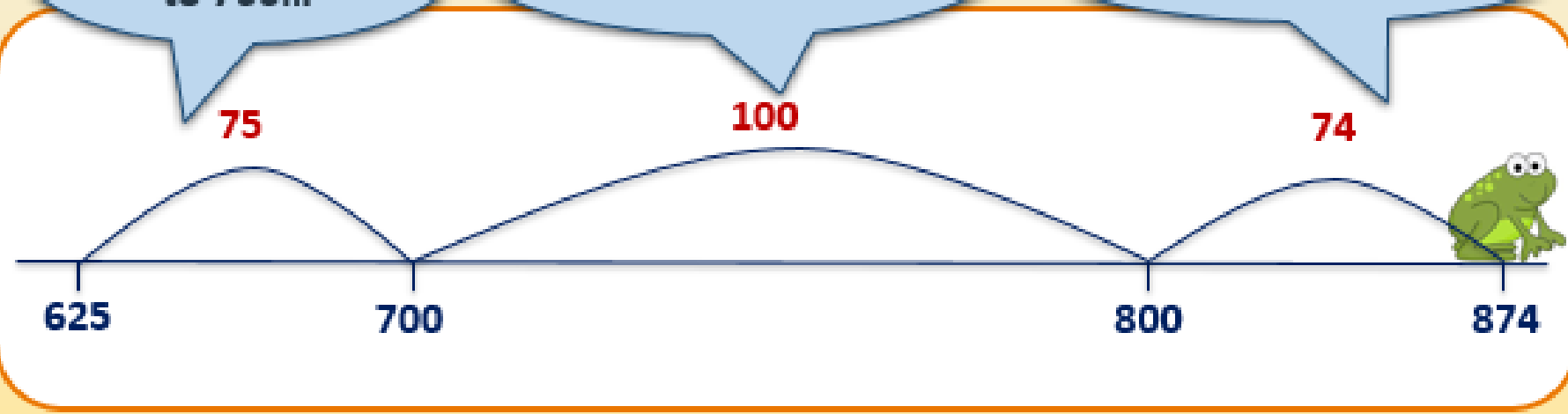
Draw a number line and mark on 625 and 874...

Add **100, 75 and 74** to find how many miles left.

Frog jumps **75** to 700...

... and then **100** to 800...

... then **74** to 874.



Practice Sheet Mild

Counting up

Practise using counting up to solve these subtractions.
Sketch empty number lines to show your steps.

$$712 - 655$$

$$623 - 589$$

$$535 - 478$$

$$615 - 575$$

$$722 - 684$$

$$525 - 449$$

$$616 - 535$$

$$607 - 569$$

$$925 - 795$$

$$814 - 685$$

Practice Sheet Hot

Counting up

Sketch an empty number line to help you to calculate these subtractions.

1. $745 - 588$

2. $762 - 584$

3. $925 - 767$

4. $623 - 489$

5. $755 - 448$

6. $826 - 682$

7. $535 - 378$

8. $756 - 437$

9. $537 - 373$

10. $615 - 476$

11. $634 - 469$

12. $1002 - 735$

Challenge

Subtract 989 from 1000. Then subtract 878 from 1000. Then 767, then 656 etc. each from 1000. Describe the pattern of the answers.

Practice Sheet Answers

Counting up (mild)

$712 - 655 = 57$

$535 - 478 = 57$

$722 - 684 = 38$

$616 - 535 = 81$

$925 - 795 = 130$

$623 - 589 = 34$

$615 - 575 = 40$

$525 - 449 = 76$

$607 - 569 = 38$

$814 - 685 = 129$

Counting up (hot)

$1. \quad 745 - 588 = 157$

$3. \quad 925 - 767 = 158$

$5. \quad 755 - 448 = 307$

$7. \quad 535 - 378 = 157$

$9. \quad 537 - 373 = 164$

$11. \quad 634 - 469 = 165$

$2. \quad 762 - 584 = 178$

$4. \quad 623 - 489 = 134$

$6. \quad 826 - 682 = 144$

$8. \quad 756 - 437 = 319$

$10. \quad 615 - 476 = 139$

$12. \quad 1002 - 735 = 267$

Challenge

$1000 - 989 = 11$

$1000 - 878 = 122$

$1000 - 767 = 233$

$1000 - 656 = 344$

$1000 - 565 = 455$

Watch out for the children using appropriate PV vocabulary in their explanations.

A Bit Stuck?

Are we nearly there yet?

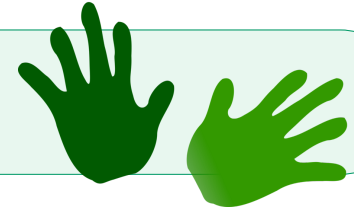
Work in pairs


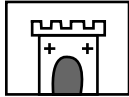





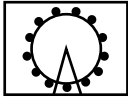




What to do:

- Families are going for a day out. The children keep asking, "Are we nearly there yet?"
- Work out how much further each family need to travel. Use Frog to help you.

Things you will need:

- A pencil



 95 miles	 103 miles
 92 miles	 104 miles
 89 miles	 102 miles
 65 miles	 101 miles
 72 miles	 105 miles
 58 miles	 106 miles

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

Draw your own jottings to work out $204 - 197$ and $204 - 89$.

Learning outcomes:

- I can use Frog to subtract numbers either side of 100, e.g. $102 - 97$ and $102 - 78$.
- I am beginning to subtract numbers either side of 200.

Check your understanding Questions

Complete each diagram.

604	
387	

912	
	868

1003	
578	

Here is Ali's homework.

- | |
|---|
| <ol style="list-style-type: none">1. $403 - 265$2. $648 - 356$3. $752 - 199$4. $812 - 754$ |
|---|

Advise him on the most efficient or error-proof subtraction strategy to calculate each one, explaining why you are suggesting that method.

Work out the answers.

Check your understanding

Answers

Complete each diagram.

604	
387	217

912	
44	868

1003	
578	425

Here is Ali's homework.

1. $403 - 265$
2. $648 - 356$
3. $752 - 199$
4. $812 - 754$

Advise him on the most efficient or error-proof subtraction strategy to calculate each one, explaining why you are suggesting that method.

Work out the answers.

1. 138 – most efficiently solved by Frog.
2. 292 – also solve by Frog, some may prefer column subtraction for this one as neither number is close to a hundreds number, and only one column needs to be adjusted.
3. 553 – subtract 200 and add 1 back.
4. 58 – count up with Frog.