Year 3: Week 2, Day 2
More subtraction by counting up (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!

© Hamilton Trust
Find a difference between pairs of numbers within the same century.

Today Frog is going to find the difference between two 3-digit numbers. Let’s try 162 - 135.

Mark 135 on the left and 162 on the right.

Frog is ready to go!

Frog first jumps 5 to 140...

... and then 20 from 140 to 160...

... then 2 from 160 to 162.

Add the jumps $20 + 5 + 2 = ?$

So $162 - 135 = 27$

Can you say why?
Learning Reminders

Find a difference between pairs of numbers, check with addition.

Now Frog will work out 693 - 626.

Where will he start?...

Frog starts at 626 and jumps 4 to 630...

... and then 60 from 630 to 690...

... then 3 to 693.

Add the jumps. So 693 - 626 = ?

Add 626 and 67 to check the answer.
Practice Sheets Mild
Subtraction practice

1. \[ 470 - 435 = \]
   \[ 435 \quad 440 \quad 470 \]

2. \[ 385 - 348 = \]
   \[ 348 \quad 350 \quad 380 \quad 385 \]

3. \[ 156 - 123 = \]
   \[ 123 \quad 130 \quad 150 \quad 156 \]

Draw your own lines to work out the answers to these subtractions.
Remember to start on the smaller number and hop to the next 10.

4. \[ 260 - 248 \]
5. \[ 390 - 357 \]
6. \[ 162 - 139 \]

**Challenge:** Choose two subtractions to check with addition.
Use Frog to work out the answers to these subtractions.

1. $483 - 427$
2. $690 - 614$
3. $575 - 528$
4. $494 - 436$
5. $982 - 919$
6. $867 - 839$
7. $794 - 736$
8. $593 - 509$

Challenge

Choose two subtractions to check with addition.
Practice Sheets Answers

Subtraction practice (Mild)
1. $470 - 435 = 35$
2. $385 - 348 = 37$
3. $156 - 123 = 33$
4. $260 - 248 = 12$
5. $390 - 357 = 33$
6. $162 - 139 = 23$

Subtraction practice (Hot)
1. $483 - 427 = 56$
2. $690 - 614 = 76$
3. $575 - 528 = 47$
4. $494 - 436 = 58$
5. $982 - 919 = 63$
6. $867 - 839 = 28$
7. $794 - 736 = 58$
8. $593 - 509 = 84$
Work in pairs, but write on your own sheet.

What to do:
- Mark the 'baby' number on the line.
- Use Frog to hop to the next 10s number.
- Make a big jump to the 10s number just before the bigger number.
- Hop to the bigger number.
- Write the answer to the subtraction.

1. \[82 - 35 = \]

2. \[95 - 46 = \]

- Now use Frog to work out at least three of these subtractions on the beaded lines.

\[
\begin{align*}
72 - 25 & \quad 83 - 39 & \quad 95 - 28 \\
73 - 26 & \quad 81 - 27
\end{align*}
\]

Learning outcomes:
- I can use Frog to subtract pairs of 2-digit numbers with a bigger gap, e.g. 84 – 37, using a beaded line to help.
- I am beginning to use counting up (Frog) to subtract pairs of 2-digit numbers with a bigger gap, e.g. 84 – 37, using landmarked line to help.
A Bit Stuck?

Frog’s ginormous jumps
A Bit Stuck?
Frog’s ginormous jumps

© Hamilton Trust
A Bit Stuck?
Frog's ginormous jumps

© Hamilton Trust
Check your understanding:

Questions

Complete the bar model diagrams:

| 472 | 428 |
| 581 | 548 |
| 875 | 837 |

Tracy has 381 pennies saved in her ‘penny-jar’. If she takes out 329 to buy a Shopkins toy, how many pennies will she have left?

In his exercise routines, Ahmed does 78 press-ups during the week. His fitness tutor says he needs to do 125 each week. So how many more must he do each week?

Fold here to hide answers:

Check your understanding:

Answers

Complete the bar model diagrams:

| 472 | 428 | 44 |
| 581 | 548 | 33 |
| 875 | 837 | 38 |

Count up using Frog, beginning with smaller number and hopping towards the larger one. Check children are making sensible choices of hop, e.g. to the next 10. Other errors may occur when adding the hops.

Tracy has 381 pennies saved in her ‘penny-jar’. If she takes out 329 to buy a Shopkins toy, how many pennies will she have left? 52 – solve using Frog, see above.

In his exercise routines, Ahmed does 78 press-ups during the week. His fitness tutor says he needs to do 125 each week. So, how many more must he do each week? 47