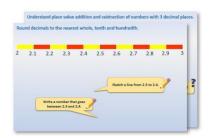
Year 4: Week 2, Day 5

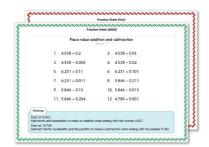
Column subtraction

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.

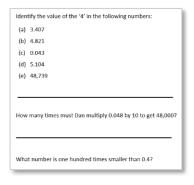


3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

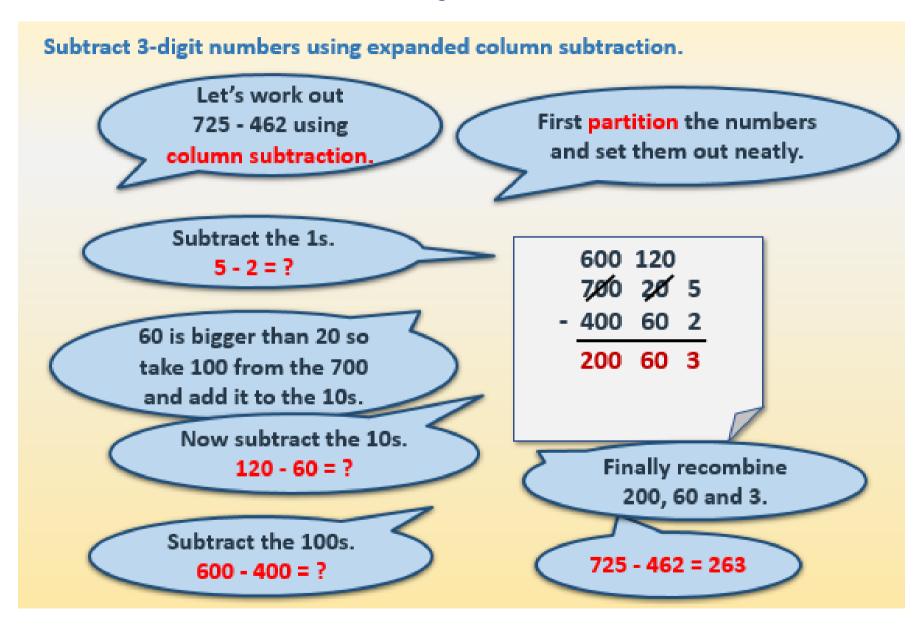


4. Have I mastered the topic? A few questions to **Check your understanding**.

Fold the page to hide the answers!



Learning Reminders



Learning Reminders

Subtract 3-digit numbers using expanded column subtraction. Now let's try 745 - 367. How many moves across columns will we need this time? 7 is bigger than 5 so take 10 from the 40 and add it 600 130 15 to the 1s. 7,000 400 85 15 - 7 = ? - 300 60 7 300 70 8 60 is bigger than 30 so

take 100 from the 700 and add it to the 10s...

Subtract the 100s. 600 - 300 = ?

Finally recombine 300, 70 and 8.

745 - 367 = 378

Practice Sheet Mild

Expanded subtraction

Use expanded column subtraction to solve these calculations.

Challenge

Write a 3-digit number. Subtract it from 999. Now say the answer if you were to subtract it from 1000. Check using Frog to subtract it from 1000. Repeat with another 3-digit number.

Practice Sheet Hot Subtraction

Choose whether to use counting up (Frog) or expanded column subtraction.

Practice Sheet Answers

Expanded subtraction (mild)

1.	265 – 134 = 131	2.	598 - 372 = 226
3.	682 - 456 = 226	4.	364 - 149 = 215
5.	472 - 253 = 219	6.	745 – 561 = <mark>184</mark>
7.	874 – 246 = <mark>628</mark>	8.	855 – 278 = <mark>577</mark>
9.	952 – 685 = <mark>267</mark>	10.	344 – 175 = <mark>169</mark>
11.	535 – 488 = 47	12.	746 - 467 = 279

Subtraction (hot)

453–348 = 105	958–482 = <mark>476</mark>
674–427 = <mark>247</mark>	607–572 = <mark>35</mark>
826–645 = <mark>181</mark>	803–641 = <mark>162</mark>
725–532 = <mark>193</mark>	520–315 = <mark>205</mark>
847–673 = 174	630–527 = <mark>103</mark>

A Bit Stuck?

Parent or carer

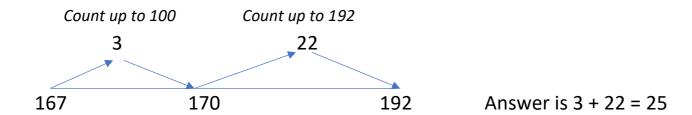
Many children at this age find column subtraction very tricky. In this case, we give them more practice on subtracting using the strategy of **counting up** on a number line. This is the method that we all use when finding our change!

Pay £10 Spend £7.25 Count up from £7.25 to £10



So, help your child to do the calculations below by counting up.

Here's the second one. 192 – 167



You can do every one on the sheet below like this.

This achieves a lot of good things!

- They rehearse the skill of adding to the next multiple of 10 an absolutely essential skill for numerical fluency.
- They consolidate their understanding of how numbers work counting from the multiple of 10 to the next number (This is the second hop.)
- o They gain confidence, because you can do ANY subtraction this way
- o It is a method which is particularly useful for money calculations.

GOOD LUCK!

A Bit Stuck?

Teach the frog

Work in pairs

What to do:

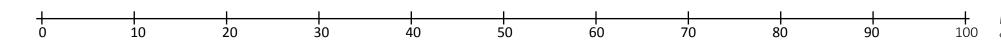
Take it in turns to be the teacher and to be the Frog. Tell your partner, one step at a time, how to work out the answer to each subtraction.

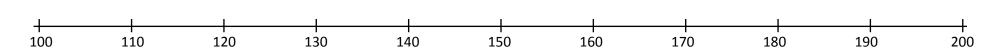
Things you will need:

· A pencil



Remember to use your skills in subtracting 2-digit numbers to help you to subtract 3-digit numbers.



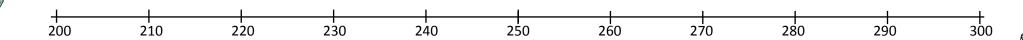




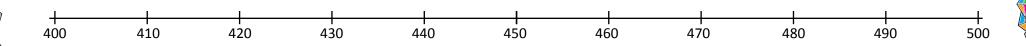
A Bit Stuck?

Teach the frog

4. 283 - 267 =



5. 452 - 437 =



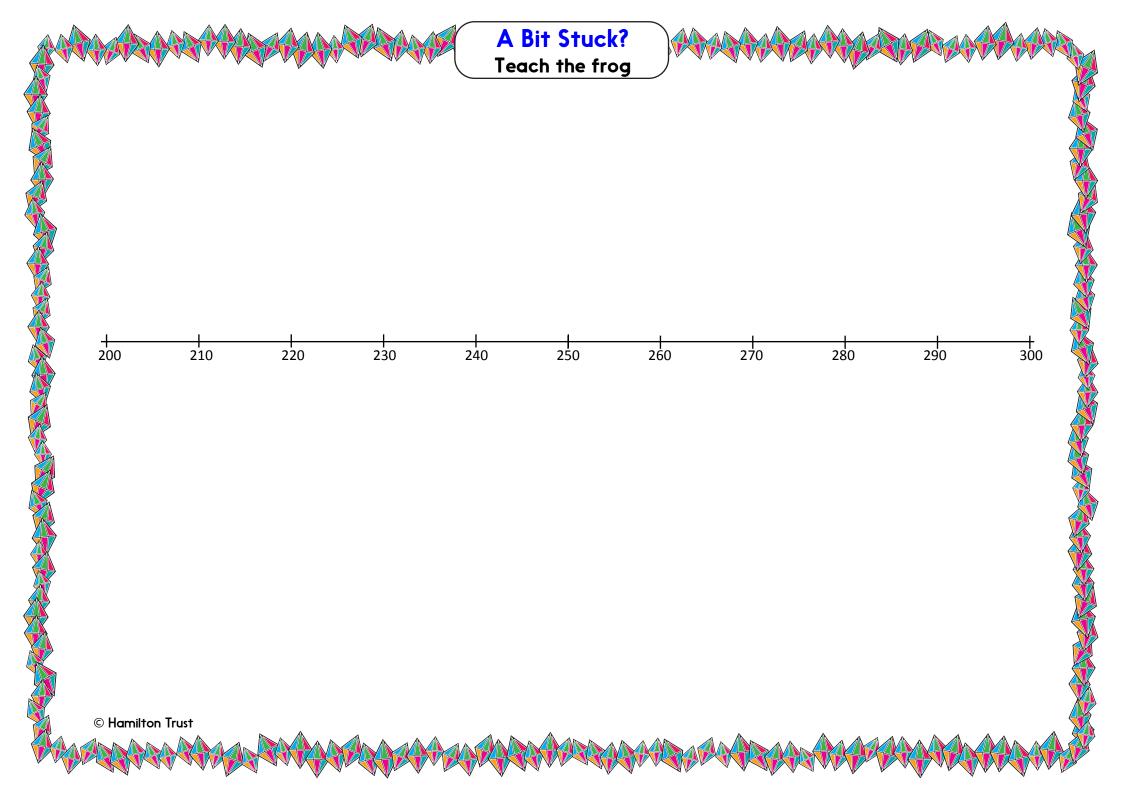
S-t-r-e-t-c-h:

Draw your own number line jottings to work out 354 - 337 and 572 - 549.

Learning outcomes:

- I can use Frog to subtract pairs of 2-digit numbers, using a landmarked line to help.
- I can use Frog to subtract pairs of 3-digit numbers, within the same century, using a landmarked line to help.
- $\bullet\,I$ am beginning to sketch my own number line jottings when using Frog.

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Check your understanding Questions

Complete this calculation that uses 'column subtraction':

Fill the gaps in this subtraction:

Fold here to hide answers

Check your understanding Answers

Complete this calculation that uses 'column subtraction':

Fill the gaps in this subtraction:

Probably best-solved by setting out as a column subtraction.