Success Criteria:

| |
|---|
| 1. Read the explanation and remind yourself how to use base ten for subtraction |
| 2. Use the base ten to work out the subtraction calculations |
| 3. Draw your own lines and dots to work out the answers to the subtractions. |

**Model:**

**1.** When we subtract two numbers, we can use base ten to help us. You can draw the Tens as lines and the Ones as dots and <u>cross them out</u> when you do your working out:

**34 - 23 =**

Take away the Tens: 30 - 20 = 10

Then take away the Ones: 4 – 3 = 1

**34 - 23 = 11**

**2. Now you try:**

Cross out the base ten to work out the answers to these subtractions:

**a) 23 – 11 =**

| Tens | Ones |
|---|---|
| ‖ | ... |

**b) 59 – 25 =**

| Tens | Ones |
|---|---|
| ‖‖‖ | ..... .... |

**3.** Draw your own base 10 lines and dots to solve these subtraction number sentences (**only draw the bigger number** and cross out the smaller amount):

a) 24 - 12 =

b) 35 + 21 =

c) 56 - 34

Lesson 3 – 08.07.2020

LO: Subtract 2-digit and 2 digit numbers crossing tens

Success Criteria:

| 1. Year 2s, refresh your memory of subtracting by counting back on a number line. |
|---|
| 2. Year 3s, refresh your memory of subtracting using column method. |

**Model:** **1.** In Year 2 we use number lines to subtract numbers when we can't do the calculation in our heads. These numbers cross a ten, which makes it harder to do mentally: $24 - 16 = $ **8**
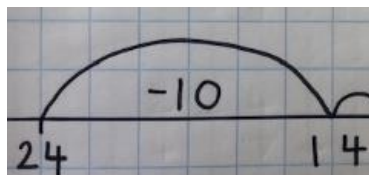
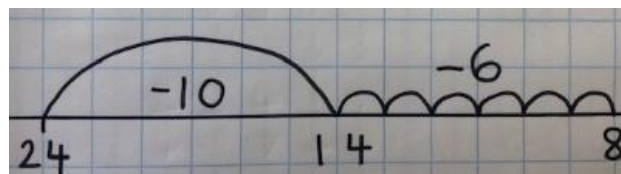Partition the number that you are adding (e.g. 24 - **16** =) into tens and ones

Start a number line from the first number (e.g. **24** - 16 =)
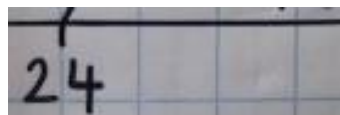
Make your tens jumps (e.g. 24 + **16** = one jump of ten back from 24) and mark the numbers on the number line

Make your ones jumps (e.g. 24 + 1**6** = six jumps of one from 14) and mark the number on the number line – this is your answer!

**2.** In Year 3 we use column subtraction to take away numbers when we can't do the calculation in our heads:

Write the larger number on top of the smaller number, in their correct place value columns (e.g. Tens and Units)

Always begin by subtracting the Units first.

We cannot do 4-6, so we exchange a Ten into the Units, leaving one fewer Ten. Now we can do 14 – 6 = 8.

Next subtract the numbers in the Tens column. 1 - 1= 0 lots of ten. You do not normally need to write the 0 in the Tens column. **Your answer to**

**24 - 16 = 8**

Canonbury Home Learning

**Year 2/3 Maths**

**Main activity**

Complete at least 2 columns, more if you can!

| Task 1 | Task 2 |
|---|---|
| **Practice** | **Practice** |
| **Year 2s use a number line** to solve these subtraction calculations: | **Year 3s use column method** to solve these subtraction calculations: |
| a) 26 – 18 | a) 36 – 28 |
| b) 43 – 17 | b) 63 – 17 |
| c) 46 – 28 | c) 56 – 28 |
| d) 55 – 36 | d) 155 – 136 |
| e) 62 – 24 | e) 262 – 124 |
| f) 31 - 19 | f) 229 - 137 |

| Task 3 | Task 4 |
|---|---|
| **Reasoning** <br> **Explain your answers.** | **Problem solving** |

**Reasoning**

**Explain your answers.**

9a. Matt and Pip are solving:

ninety-six – thirty-nine =

Matt: The answer is 57.

Pip: The answer is 67.

Who is correct? Explain how you know.

9b. Ted and Aisha are solving:

eighty-three – fifty-seven =

Ted: The answer is 25.

Aisha: The answer is 26.

Who is correct? Explain how you know.

7a. John has calculated fifty-three subtract twenty-five. His calculation is below.

$$
\begin{array}{r}
{}^4\cancel{5}\,{}^1 3 \\
-\ 2\ 5 \\
\hline
2\ 7
\end{array}
$$

What mistake has he made?

**Problem solving**

Annie has 36 stickers. Dexter has 54 stickers.

How many more stickers does Dexter have than Annie?

Eva and Whitney are working out some subtractions.

Whitney: I am working out $74 - 56$

Eva: One of my numbers in my question is 15

Whitney's answer is double Eva's answer.

What could Eva's subtraction be?

8a. Using the digit cards below, create 3 different 2-digit subtraction that includes an exchange.

☐☐ – ☐☐ = ?

9    3

2    7

## Challenge

2. Arrange the loop cards so that each subtraction calculation is matched to the correct total. Fill in the blank cards with the correct answers to complete the loop.

| | 45 – 29 |
|---|---|

| | 63 – 48 | 38 |
|---|---|---|

| 16 | 92 – 55 |
|---|---|

| | 76 – 68 |
|---|---|

| 57 – 19 | |
|---|---|

| 84 – 37 | 8 |
|---|---|