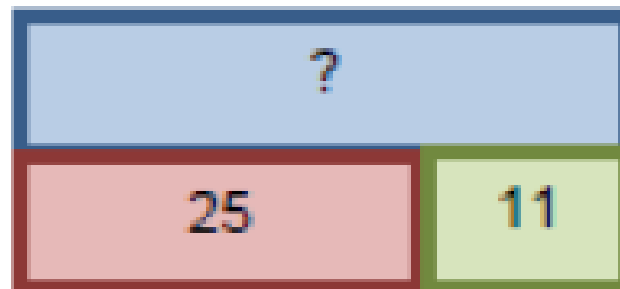
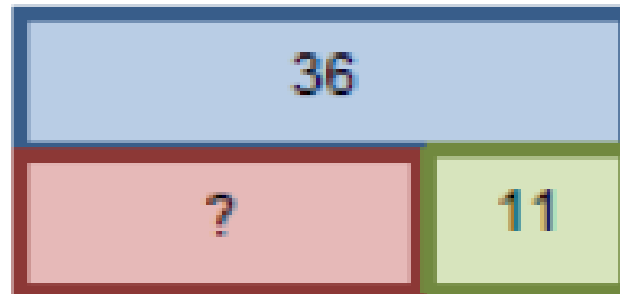
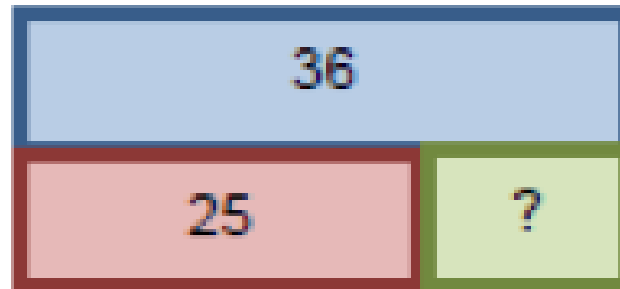


Numeracy lesson.

Tuesday 31st March

Mental Maths

Write a number sentence to find the value of the ? in each of the bar models.



L.I. To subtract using expanded subtractions method.

Recommended time approx 1 hour

Steps to success

- I can partition numbers into hundreds, tens and ones.
- I can subtract the ones.
- I can subtract the tens/hundreds.
- I can combine these to find the answer.

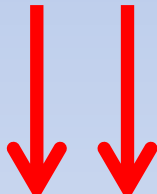


Parents/Carers please note this is the step before regular column subtraction. The reason we do it this way is so pupils have a good understanding of the value of the of the digits and so they don't get confused with 'exchanging' digits into the tens/hundreds column.

Step 1- write down your sum and ensure digits are on top of each other..

Tens sit
above each
other

Ones sit
above
each
other



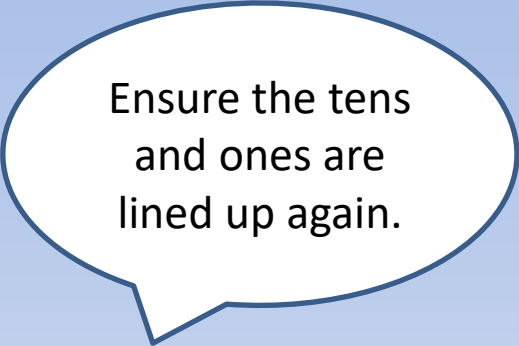
49

- 15

Step 2- partition each number
to the side.

49 → 40 and 9

- 15 → 10 and 5



Ensure the tens
and ones are
lined up again.

Step 3- subtract vertically the ones.



$$\begin{array}{r} 49 \rightarrow 40 \text{ and } 9 \\ - 15 \rightarrow 10 \text{ and } 5 \\ \hline \text{and } 4 \end{array}$$

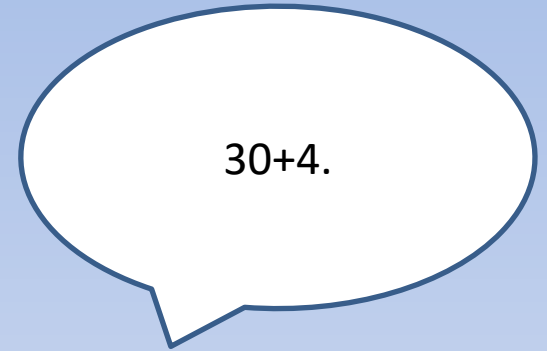
Step 4- subtract vertically the tens.

$$\begin{array}{r} 49 \rightarrow 40 \text{ and } 9 \\ - 15 \rightarrow 10 \text{ and } 4 \\ \hline \end{array}$$

$$\begin{array}{r} \text{30} \text{ and } 4 \\ \hline \end{array}$$

40-10.

Step 4- combine the tens and ones together.



49 → 40 and 9

- 15 → 10 and 5

34 30 and 4

Here is an example with a
bigger number

$$457 - 226 = 231$$

$$\begin{array}{r} 400 + 50 + 7 \quad _ \\ 200 + 20 + 6 \\ \hline 200 + 30 + 1 \\ \hline = 231 \end{array}$$

Your turn!

In your jotter calculate the following using the expanded method. You choose which chilli challenge suits your level of understanding!



You will be subtracting with exchanges- see this you tube tutorial <https://www.youtube.com/watch?v=X3zn1iZQYNk>

Mild



Spicy



1. $48 - 24 =$
2. $37 - 12 =$
3. $59 - 31 =$
4. $77 - 45 =$
5. $89 - 36 =$
6. $98 - 27 =$
7. $85 - 22 =$
8. $39 - 11 =$

1. $148 - 24 =$
2. $237 - 16 =$
3. $159 - 31 =$
4. $377 - 45 =$
5. $189 - 136 =$
6. $498 - 127 =$
7. $835 - 322 =$
8. $239 - 111 =$

1. $148 - 29 =$
2. $237 - 18 =$
3. $152 - 39 =$
4. $377 - 49 =$
5. $182 - 138 =$
6. $491 - 126 =$
7. $832 - 328 =$
8. $232 - 119 =$

Let's reflect on our learning!

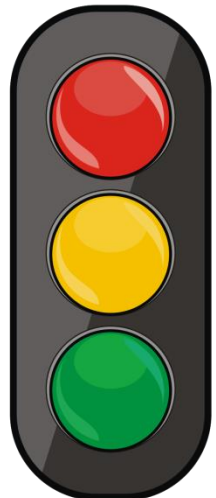
Can you now...

...partition numbers into hundreds, tens and ones?

...subtract the ones?

...subtract the tens/hundreds?

...combine these to find the answer?



Not achieved the learning intention- I've answered 'no' to all of the above.
Go through the slides again.

Partly achieved the learning intention- I've answered 'yes' to some of the above
Goo job! We'll keep practising.

Achieved the learning intention- I've answered 'yes' to all of the above.
Well done!