

Maths 4U

Fourth Grade

Pages 12 - 13

Start

Working out the Take the challenge activity.

Tell ss to look at the numbers in the box – ask them to think of how the following number is different from the previous one.

Explain to ss that reading carefully is very important because they must understand the situation, identify what information they can use and how to use it.

Get some ss reading, and then ask them to look at the numbers again.

Read question 1, and then ask ss to underline key words (How / work).

Ss read question 2, and then ask them to underline key words (next number).

Ss read question 3, and then ask them to underline key words (next four numbers).

Let ss use L1 when discussing on what the correct answer could be; only when necessary.

During

Draw ss' attention to the numbers in the table - ask them to tell you how these numbers are different from the ones in the previous activity.

Explain to ss that they must find out what the next numbers are, and for doing that, they can just

consider the digits at the right – point out that this is possible because these are large numbers, and for this activity, the digits at the right are the only ones that will change.

Walk ss through finding the next numbers for the first two lines. Then get some ss working out the next numbers for the following two lines on the board. Next let ss working out the rest on their own – have a whole class check.

Tell ss to look at the boxes on page 13.

Explain to them that it is time for them to add different amounts to the same numbers.

Ask them to find / spot what amounts will be added.

Walk ss through identifying what digits should be considered based on the numbers that will be added.

$$\begin{aligned} 481\ 359 + 10 &= 481\ 369 \\ 481\ 359 + 100 &= 481\ 459 \\ 481\ 359 + 1000 &= 482\ 359 \end{aligned}$$

Explain to ss that for the sentences below, they can do the same / use the same strategy, the only difference is that this time there are no symbols, but words.

Whole class doing and checking.

End

Tell ss to dictate the numbers to you, and then write the ones in the green boxes – on the board.

Tell ss to close their books and explain to them that it can also be done mentally, as long as they master or create certain strategies; for example the one

above with the numbers / digits in red.

Get ss doing the math mentally – write on the board the numbers ss get whenever needed.

Once ss have found all the final numbers, ask them to write them on the lines.

It is time for you to decide on the notes for ss to write.

It could be some sentences explaining the red numbers / digits strategy, but you may also consider not having notes in this session as the mental math activity might take long.

**Ex.
Mental math strategy**

$$\begin{aligned} 481\ 359 + 10 &= 481\ 369 \\ 481\ 359 + 100 &= 481\ 459 \\ 481\ 359 + 1000 &= 482\ 359 \end{aligned}$$