L.O - To multiply 2 digit by 1 digit using written method with exchanging. success criteria

•To use my knowledge of place value in my written method.

•To use my times tables knowledge to solve calculations using written method.

•To understand what happens when exchanging when using the written method.

•To problem solve and reason using the written method.

Key vocabualry: exchanging, tens, ones, multiplication, repeated addition

We have been using column method to multiply over the past few days but we have not been exchanging. today we are going to learn this method.

Why would we need to exchange for the following multiplication?

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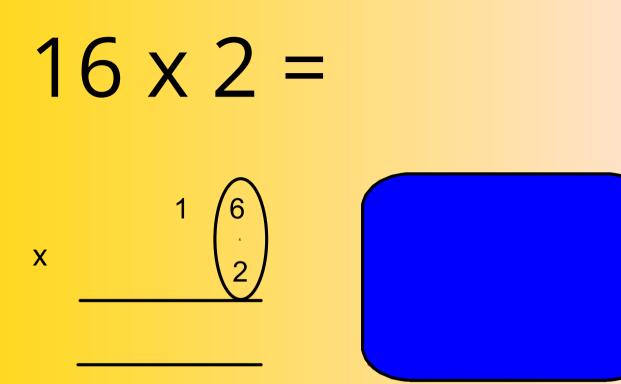
1

6

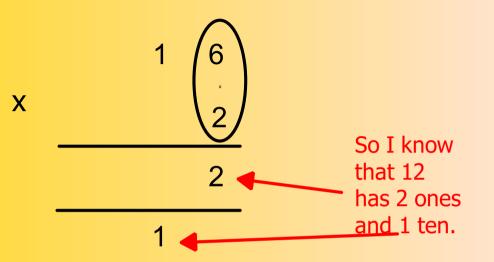
2

16 x 2 =



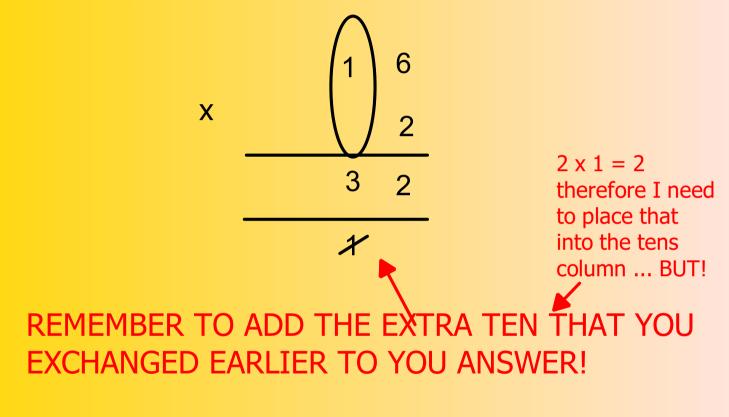


Now that I have worked out 6 X 2, using your knowledge of place value what is my next step? Now that I have worked out $6 \times 2 = 12$, We need to place it into our multiplication column.



Therefore I placed 2 in the ones column and I exchanged my 1 into the tens column under the answer, just like I would with addition.

And finally I need to multiply the number of tens by two. My calculation 2×1 .



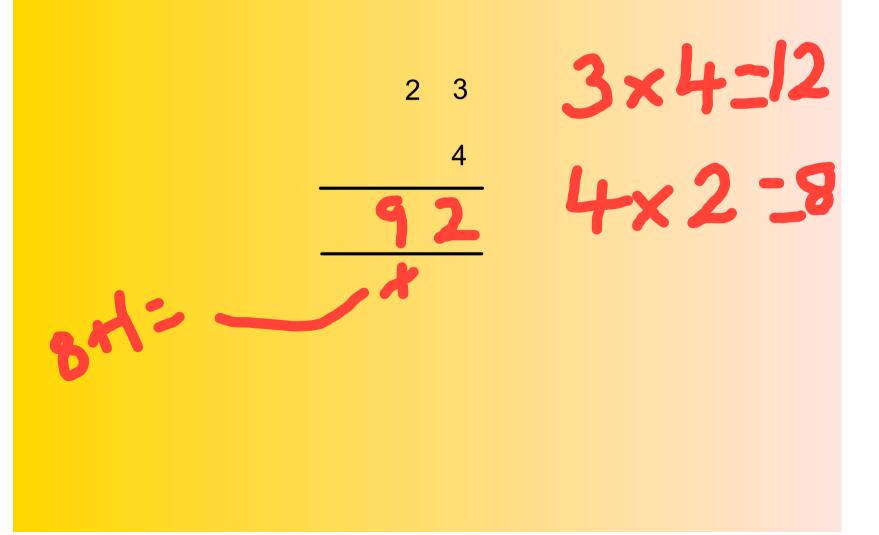
Use this video link to help you with the method

https://www.youtube.com/watch?v=cBe3RYJRODk

Lets have a go ourselves 23 x 4 =



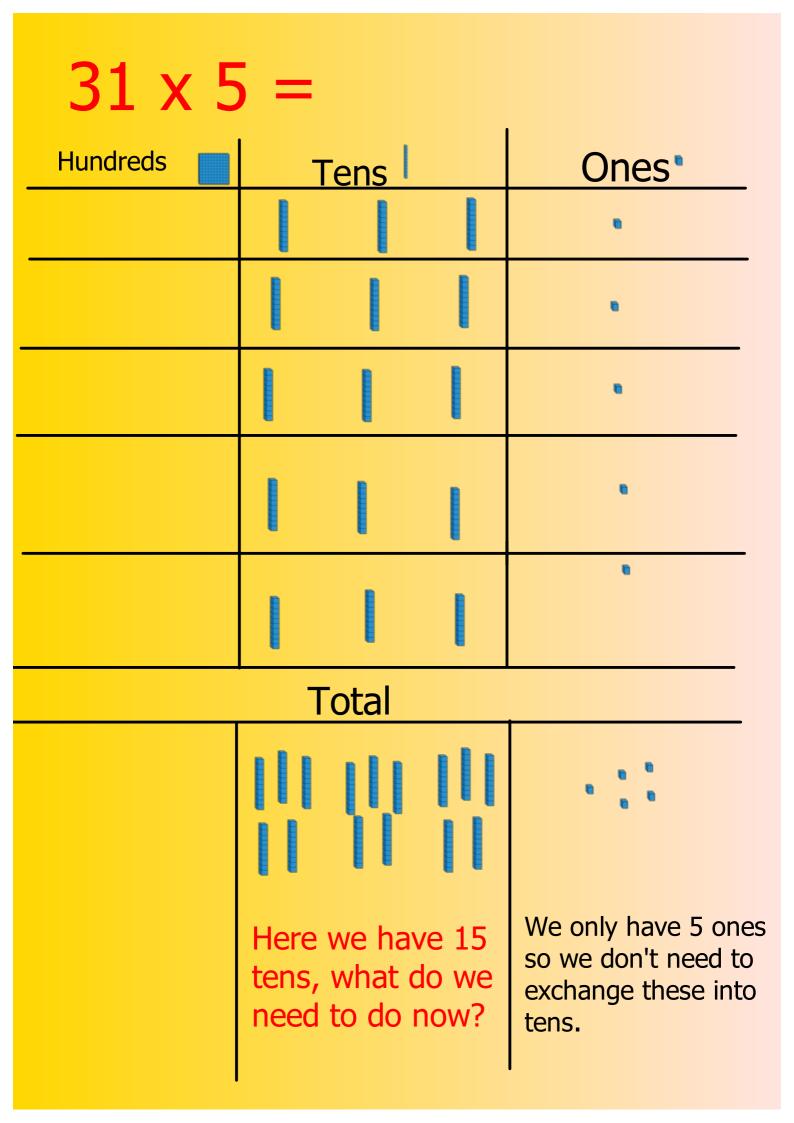
Lets have a go ourselves $23 \times 4 = 92$



Some times we may have more than 9 tens and therefore we will have to exchange them into the hundreds column.

Lets see how we can do this using ten sticks.

35 x 5 =



Have a go at 31 x 5 yourself using column multiplication.

It needs to be set out correctly!

Fluency 1.16 x 5 2.22 x 4 3.36 x 5 4.55 x 2 5. 47 x 3

Fluency answers

1.16 x 5= 80 2.22 x 4= 88 3.36 x 5= 180 4.55 x 2= 110 5. 47 x 3= 141