

Long multiplication - Year 6

1. Line up the numbers in a column format.

$$\begin{array}{r} \text{Th H T O} \\ 33 \\ \times 21 \\ \hline \\ \hline \end{array}$$

2. Multiply each top digit by the last digit in the bottom number.

$$\begin{array}{r} \text{Th H T O} \\ 33 \\ \times 21 \\ \hline 33 \\ \hline \end{array}$$

3. Add a zero as a placeholder in the second row to represent already multiplying by the digit in that place value.

$$\begin{array}{r} \text{Th H T O} \\ 33 \\ \times 21 \\ \hline 33 \\ 660 \\ \hline \end{array}$$

4. Multiply each top digit in the bottom number.



$$\begin{array}{r} \text{Th H T O} \\ 33 \\ \times 21 \\ \hline 33 \\ 660 \\ \hline 693 \end{array}$$

5. Finally add the two products 33 and 660 to get the answer of 693.

$$\begin{array}{r} \text{Th H T O} \\ 33 \\ \times 21 \\ \hline 33 \leftarrow \text{This is } 33 \times 1 \\ 660 \leftarrow \text{This is } 33 \times 20 \\ \hline 693 \leftarrow \text{This is } 33 \times 21 \end{array}$$

Tip - Unlike myself, ensure each square only has one digit in!