Decimal to binary – enhancing the calculator

To make the calculator handle bigger numbers, add columns on the left the four already there.

- The next power, $2^4$, is equal to 16. Enter the heading 16 into cell G5.

- Type a formula into G6. =INT(F7/16) This will take the value from cell F7, divide it by 16 and then make it a whole number. This is testing whether a lot of 16 can go into the number or not.

- Enter a new formula into G7. =F7-G6*16 This formula will subtract either 16 or 0 from the number in F7.

- Continue to expand the power of your converter by inserting three more columns with the relevant formulae for the powers $2^5$ (32), $2^6$ (64) and $2^7$ (128).

- In the formulas for the D column make sure that they refer to the original number in C6 and not C7.

- Make sure that your calculator is working correctly by entering a number less than 256 into cell C6 and then checking the result.

- Personalise your converter by altering elements such as labels, gridlines and colour.