

Ex. Write .000832 in scientific notation

$$.000832 = 8.32 \times 10^{-4}$$

Note: To write .000832 as a number between one and ten, I moved the decimal point 4 places to the right – that's multiplication by 10,000. So I'm not changing the value of the original number .00082, I will divide by 10,000.

Pattern:

When moving the decimal to the right, that's multiplication by power of 10, then I will have to divide that by the same power of 10 to keep the same value of the original number