**O level mathematics by Anon**

**Standard form**

Many measurements require very large numbers for example speed of light is 300000000 m/s.

This figures can be conveniently written as:

$3.0×10^{8}$ (Correct to 2 significant figures)

This way of writing a figure is known as standard form or scientific notation.

Another example can be the wavelength of violet light which is 0.000038cm.

It can be written as:

$3.8 ×10^{-5} $(Correct to 2 significant figure)

So a general rule for all figure in written in standard form or scientific notation is:

$$A ×10^{n}, where 1\leq A<10 and n is an integer.$$