

Scientific Notation

Def:

Shorthand method for writing large + small numbers

Requires
(2)

1) $\times 10^x$ (ten raised to a power)

2) only one # to the left of the decimal

ex:

$$5.6 \times 10^2$$

Exponent

tells you how far + which direction to move the decimal pt.

positive
neg.

move decimal $\rightarrow$ (right)
" " $\leftarrow$ (left)

ex:

5.6×10^2 move right 2 places

$$\underline{5.60} \Rightarrow 560$$

5.6×10^{-2} move left 2 places

$$\overset{0}{\leftarrow} \underline{5.6} \Rightarrow .056$$