

Scientific Notation

Essential information

Standard form

Any number can be written uniquely in standard form (scientific notation) as

$$a \times 10^n$$

where $1 \leq a < 10$ and n is an integer.

Note that

in standard form, the number is written as

$$a \times 10^n$$

where $1 \leq a < 10$ and n is an integer.

For example, $4763 = 4.763 \times 10^3$ ($a = 4.763$, $n = 3$)

$$0.037 = 3.7 \times 10^{-2} \quad (a = 3.7, \quad n = -2)$$