

C Scientific Notation

Scientific notation or **standard form** involves writing a given number as a number between 1 and 10, multiplied by a power of 10.

The number is written in the form $a \times 10^k$ where $1 \leq a < 10$ and k is an integer.

For example:

5,000,000 is written as $5 \times 1,000,000 = 5 \times 10^6$ ☐

For example:

0.00003 is written as $3 \times 0.00001 = 3 \times 10^{-5}$ ☐

Using your calculator to evaluate...

$$\underline{870,000} \times 95,000,000$$

$$8 \cdot 10^5 \cdot 9.5 \times 10^7$$

$$\begin{array}{l} 8.7\text{E}5 \cdot 9.5\text{E}7 \\ \blacksquare \quad 8.265\text{E}13 \end{array}$$

$$8.265 \cdot 10^1$$

$$\frac{6.2 \times 10^3}{8 \times 10^{12}}$$

$$7.75 \times 10^{-10}$$