

Scientific Notation

Scientific Notation (also called **Standard Form** in Britain) is a special way of writing numbers:

Like this:

$$\begin{array}{ccc} 700 & \rightarrow & 7 \times 10^2 \\ \text{A Number} & & \text{In Scientific Notation} \end{array}$$

INSTRUCTIONS: Examine each number below. Determine if each number is written in scientific notation (standard form). If so, type **Y for yes** or **N for no** in the first box.

1) 1.24×10^{-4}

2) 357×10^5

3) 62.14×10^{-9}

4) 0.0247×10^3

5) 8.2×10^{-2}

6) 0.11×10^{-7}

7) 73.2×10^0

(8) $0.00045 =$

9) 18.5×10^7

10) 804×10^{-8}

11. 5.64×10^{-4}

12. 1,902,500,000

Convert scientific to standard numbers

13) $4.7 \times 10^3 =$

14) $2.051 \times 10^7 =$

15) $3.8057 \times 10^4 =$

16) $6.3 \times 10^{-4} =$

17) $3.04 \times 10^{-3} =$

18) $5.007 \times 10^{-7} =$

Convert standard numbers to scientific notation

19) 4,550,000 =

20) 604,700,000 =

21) 2,000,000,000 =

22) 0.0000471 =

23) 0.0035 =

24) 0.0000000000009273 =