

Scientific Notation

SN1

A way of writing really really big #s & teeny tiny #s

3 parts:

1) a number greater than or equal to 1 and less than 10
 $1 \leq n < 10$

2) a multiplication sign

3) a power of 10 (10^n)

positive exponents on a power of 10 are really really big #s
(move decimal to the right / multiply by power of 10)

negative exponents on a power of 10 are teeny tiny #s
(move decimal to the left / divide by power of 10)

Standard Notation	Scientific Notation
23070,000,000,000	2.307×10^{13}
101,200,000	1.012×10^8
0.000000000000000008	8×10^{-16} $\frac{8}{10^{16}}$
0.000000000304	3.04×10^{-10}