

## Scientific Notation

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
2,000,000,000	$2 \times 10^9$
230,000,000	$2.3 \times 10^8$
0.0000000017	$1.7 \times 10^{-9}$
0.00045020	$4.502 \times 10^{-4}$