

Questions?

9/4 - Scientific Notation

- is a way of writing very **LARGE** or very small numbers.
- Uses powers of 10
- the multiples of ten tell you where to move the decimals (where the decimal goes)
- Positive power of ten = decimal to right
- Negative power of ten = decimal to left.

Examples: $3.0 \times 10^4 = 30000$

$2.7 \times 10^9 = 2,700,000,000$

$3.0 \times 10^{-4} = .0003$

$2.7 \times 10^{-9} = .0000000027$

- How many times larger is one number compared to another?

- The difference in exponents!

3.0×10^4 vs. 3.0×10^{-4}

4 vs. -4 is 8 decimal places
or 100,000,000 times larger!

Summary?