

# SCIENTIFIC NOTATION

A QUICK WAY TO WRITE

REALLY, REALLY BIG

OR

REALLY, REALLY SMALL NUMBERS.

# Examples of powers of 10

$$10000 = 10 \times 10 \times 10 \times 10 = 10^4$$

$$1000 = 10 \times 10 \times 10 = 10^3$$

$$100 = 10 \times 10 = 10^2$$

$$10 = 10^1$$

$$1 = 10^0$$

Do you see a pattern?

# What if powers are negative?

$$\begin{aligned}\frac{1}{10} &= 10^{-1} \\ \frac{1}{100} &= \frac{1}{10^2} = 10^{-2} \\ \frac{1}{1000} &= \frac{1}{10^3} = 10^{-3} \\ \frac{1}{10000} &= \frac{1}{10^4} = 10^{-4}\end{aligned}$$