

$$2.5 \times 10^9$$

The exponent is the number of places we moved the decimal.

$$0.0000579$$

Step #1: Decide where the decimal must end up so that one number is to its left

Step #2: Count how many places you bounce the decimal point

Step #3: Re-write in the form $M \times 10^n$

$$5.79 \times 10^{-5}$$

The exponent is negative because the number we started with was less than 1.

Sci Not Practice

Expand these numbers:

- ▶ 5.6×10^4
- ▶ 3.5×10^7
- ▶ 1.3×10^{-3}
- ▶ -4.145×10^2
- ▶ 2.83×10^{-4}

Sci Not Practice

Write these numbers in Scientific Notation.

- ▶ 4,560,000
- ▶ -5,478
- ▶ -0.0034
- ▶ 7,834
- ▶ 0.0041
- ▶ 0.00000000781

Scientific Notation Review

- ▶ A method of representing very large or very small numbers in the form: $M \times 10^n$
- ▶ M is the coefficient and can be + or - and must be between 1.0 and 10
- ▶ n is the exponent and can be + or - and it tells the direction the decimal moves. (Must be a whole #)