Standard and Scientific Notation

Standard Form		Scientific Notation Form
1,600,000	=	1.6×10^6

1. **1,600,000.0 Find where the original decimal point is**
   (If there isn't a decimal point, then it automatically goes to the far right of the number)
2. **1600000.** Move the decimal point to the ***right of the first non-zero number***
3. **1.6×10^6 Now rewrite the new number 1.6 times a power of 10**

- **The number of times you move decimal point (6 waves) will be the exponent value ^{6}**

Scientific Notation Form		Standard Form(Decimal)
3.54×10^{-9}	=	0.00000000354

1. **3.54×10^{-9}**
   - Notice the exponent number is how many places you will move the decimal
2. **0.000000003.54** Move decimal **left** if **exponent is Negative**
   Move decimal **right** if **exponent is Positive**
3. **0.00000000354** **Now the number is in Standard (Decimal) Form**

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*Important to Note:

1. The number of places you must move the decimal point is the exponent you will use.
2. If number is fractional (less than 1 or greater than -1) than a negative exponent will be used.
3. If number is greater than 1 or smaller than -1, a positive exponent will be used.
4. If original number is positive keep it positive: $0.0012 = 1.2 \times 10^{-3}$
5. If original number is negative keep it negative: $-0.00039 = -3.9 \times 10^{-4}$