**Converting Standard Notation to Scientific Notation**

1. Move the decimal point so that the new number is between 1 and 10.

Drop all extra zeros. (Remember, whole numbers have an invisible decimal point at the end)

Ex.) 20,340,000 🡪 2.034

1. Multiply the decimal by \_\_\_\_\_\_\_\_ to an exponent

Ex.) 2.034 x 10

* + Exponent represents the number of spaces you \_\_\_\_\_\_\_\_\_\_\_ the decimal
  + Original Number Greater than 1 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Exponent
  + Original Number Less than 1 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Exponent

Therefore, 20,340,000 = \_\_\_\_\_\_\_\_\_\_\_\_\_

**Converting Scientific Notation to Standard Notation**

1. Write the first number

Ex.) 4.56 x 10 -3 🡪 4.56

1. Move the decimal the number of places given in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   * **Positive Exponent** 🡪 move decimal to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   * **Negative Exponent** 🡪 move decimal to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Fill in any blanks with zeros.

Therefore, 4.56 x 10 -3 = \_\_\_\_\_\_\_\_\_\_\_\_



