*c* x 10n

Any number 1-9 Always 10 A whole number

1. Count how many places you move left/right to make the decimal one step to the right of *c*. The number of places is n.
2. If you move to the left, n is positive.
3. If you move to the right, n is negative.

2,345,643 = 2.35 x 106

Move to the left six steps; rounded two decimal places

0.00008765 = 8.77 x 10-5

Move to the right five steps; rounded two decimal places

**Addition and Subtraction**

1. Convert all numbers to the same power of 10.
2. If you go to a larger power of ten, move the decimal to the left.
3. If you go to a smaller power of ten, move the decimal to the right.
4. Add/subtract.

2.35 x 106 + 8.77 x 105 2.35 x 10 6 + 0.877 x 106 = 3.227 x 106

**Multiplication and Division**

1. Multiply/Divide the digits normally.
2. If multiplying, add the exponents of 10.
3. If dividing, subtract the exponents of 10.

2.35 x 106 \* 8.77 x 105 = 20.6095 x 1011 = 2.06095 x 1012

2.35 x 106 ÷ 8.77 x 103 = 0.267959 x 103 = 2.67959 x 102