Decimal Operations

Adding and Subtracting Decimals

Example :   235.7 + 18.276

1) Write digits with the same position under each other and line up the decimal point.

        235.7
    + 18.276

2) Add or (subtract) the numbers **ignoring** the decimal point.

        235.7
    + 18.276

3) Place the decimal point directly under the decimal of the other numbers.

      2 3 5 .7
    + 1 8 .2 7 6
      2 5 3. 976

Multiplying Decimals

Multiplying by Powers of 10

When multiplying a decimal number by 10,100,1000, etc.:

Move the decimal point to the **RIGHT** one place for every zero.

Example: 3.45 X 100

            3.45   =345.00

When multiplying by a decimal number by 0.1, 0.01, 0.001, 0.0001, etc.:

Move the decimal point to the **LEFT,** by as many decimal places there are in the power.

Example: 3.45 X 0.001

    3.45   = 0.00345

Multiplication of Decimal Numbers

1) Multiply them as if they were not decimal numbers.

       35.18
    X   4.7

2) Count the number of decimal places in the 2 numbers
   we have 3.

3) Put the decimal place in the result so it is same as the total of the 2 numbers.

Dividing Decimals

Dividing by Powers of 10

When dividing a decimal number by 10,100,1000, etc.:

Move the decimal point to the **LEFT** one place for every zero.

Example: 3.45   100

          3.45   =

When dividing by a decimal number by 0.1, 0.01, 0.001, 0.0001, etc.:

Move the decimal point to the **RIGHT** by as many decimal places there are in the power.

Example: 3.45   0.001

          3.45   =