



## Calculating Numerical Expressions



It is time for some math. The first thing we are going to do is enter in some numerical expressions and then Calculate and Simplify them.

There are a few things to keep in mind:

1) parentheses will fix almost anything.

If you have trouble keeping the cursor where you want then enter in some parentheses.

2) Use the left and right arrow keys to get in and out of parentheses.

3) When the arrows don't work use the mouse to click your way in and out of parentheses or to other positions in your expression.

4) The tab key will move around expressions also.

5) The Calculate key looks like this :



6) The fraction button looks like this :



You can find it in the pop-up menu under this button :



You can also make a fraction by pressing the / key on your keyboard.

7) The Simplify button looks like this :



To Calculate or Simplify an expression highlight the expression itself and then click on the Calculate or Simplify button in the palette. Do not highlight the icon...just the expression.



Here are some examples:

$3+4 \square 2 \cdot 3 \square 2+5$

$\triangle 3+4 \square 2 \cdot 3 \square 2+5 = 4$  Calculate

$(3+4) \square 2 \cdot 3 \square 2+5$

$\triangle (3+4) \square 2 \cdot 3 \square 2+5 = 4$  Calculate

$(3+4 \square 2) \cdot 3 \square 2+5$

$\triangle (3+4 \square 2) \cdot 3 \square 2+5 = 18$  Calculate

$(3+4 \square 2)(3 \square 2+5)$

$\triangle (3+4 \square 2)(3 \square 2+5) = 30$  Calculate

$\frac{3+4 \square 2}{3 \square 2+5}$

$\triangle \frac{3+4 \square 2}{3 \square 2+5} = 0.83333$  Calculate

$\frac{3+4 \square 2}{3 \square 2+5}$

$\triangle \frac{3+4 \square 2}{3 \square 2+5} = \frac{5}{6}$  Simplify



**Now It's Your Turn...** Follow the directions below to get hands on experience.



1.

Enter in these expressions and Calculate them:

1)  $6 + 3 * 2 + 5 - 2 * 4 + 3 - 2$

2)  $(6 + 3) * 2 + 5 - 2 * 4 + 3 - 2$

3)  $6 + 3 * 2 + (5 - 2) * 4 + 3 - 2$

4)  $6 + 3 * 2 + 5 - 2 * (4 + 3) - 2$



2.

Enter in these expressions. Calculate and Simplify them:

1)  $\frac{6 + 3 * 2 + 5}{2 * 4 + 3 - 2}$

2)  $6 + 3 * \frac{2 + 5}{2 * 4 + 3} - 2$

3)  $6 + \frac{3 * 2 + 5}{2} * \frac{4 + 3}{-2}$