## Unit 1 Discussion Example – Post 3: Reply to a Classmate

Hi Classmate. The posted expression was:

$$1+(2\times3)-\frac{4}{5^2}$$
 and it was solved correctly to equal 6.84

a) Let's take away the parentheses and see if we get the same result but STILL using the order of operations. We don't have to worry about any parentheses.

$$1+2 \times 3 - \frac{4}{5^2}$$

$$1+2\times 3-\frac{4}{25}$$
 Evaluating the Exponent

$$1+6-\frac{4}{25}$$
 Multiplying or Dividing whatever came first from left to right

$$1+6-\ 0.16$$
 Multiplying or Dividing whatever came first from left to right

$$7-0.16$$
 Adding or Subtracting whatever came first from left to right

b) Is this case, the result is the same!! The parentheses weren't necessary, but this is not always the case! For example, if the parentheses were around the addition, say (1+2), then this part would be evaluated before you multiplied it to the 3.

That WOULD change the result.