## Math Sentences as Algebraic Expressions- Step-by-Step Lesson

Directions: Write the following math sentence as an algebraic expression.

## Math Sentence →

Six times the value of an unknown number squared plus three times itself.

## **Explanation** ->

When we are translating a math sentence, it is often helpful to write the values in number form to help make sense of them. Let us do that to this sentence. We will rewrite the sentence and point out any figures that make themselves apparent. We will highlight the word values with colors as well.

## Rewrite:

Six times the value of an unknown number squared plus three times itself.

6 \* x<sup>2</sup> + 3x

As you can see above, we choose to use the variable (x) to define the unknown number. You could choose any variable of your choice. Now that we broke down the entire statement, we just need to put everything together. We must pay particular attention to the portion of the math sentence that we did not already break down, particularly "Six times the value of an". This indicates that we are going to multiply everything that comes after "the value" by six. We can signify that by placing everything within a parenthesis Taking all that into consideration we would be left with:

$$6(x^2 + 3x)$$



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