Clarification on calculation of CalculateNewAssessedValue()

Someone asked about why we need to add a 1 in our calculation here:

LastYearValue \* (1 + assessment\_increase)

Because if you multiply lastYearValue \* assessment\_increase (without the 1), you get a smaller number than before. For example:

NewAssessedValue = 10 \* .5 = **5**

This isn't correct, because your property value will never increase.

Instead, your property value increases by a percentage, say **50%** again.

So,

NewAssessedValue = 10 \* (1 + .5) = **15**

Here, our new value increased by 50%. It's the original value, 1 aka **100%**, plus, the new percentage increase.

Hope that makes sense?

It's kind of basic mathematics, which you can learn [more about here](https://www.mathsisfun.com/numbers/percentage-change.html) if you're still unclear.