Student A+

October 3, 2016

**POW #1 Broken Eggs Write-up**

1. **Problem Statement:** We are supposed to figure out how to find the number of eggs a farmer had before she lost them. She remembers there was always one extra egg when she put them in groups of 2,3,4,5,6, but they fit equally when she placed them in 7ths.

2.  **Process:** I divided a bunch of numbers and tried to find a number that had one reminder when it was divided into 2,3,4,5,6. After a while, I realized I didn't have to divide a certain number with all the numbers I was trying to fit it with. I found out that if I saw at least one number it didn't fit with I could find a totally different number instead of taking more time and dividing it with the others. In the end, our class figured that the farmer had 301 eggs.

3. **Solution:** I believe that this answer is right because we went over it multiple times in class and everyone seems to agree.  We used the 'Guess and Check' strategy.  We came up with a solution to figure out the problem faster. We found out that we could count by 14 instead of 7. We then learned we could use a bigger number as we went along. After using this strategy we found an answer that had a reminder when it was divided by all the numbers except 7.