

Hi, I'm Greg. I'm a NYC tutor! I love helping students. I tutor many subjects, assist with homework help, etc. I mainly specialize in specialized tests.

As it turns out, I haven't been able to get to do as many livestreams as I have in past years (yet, hopefully that changes). Therefore, I thought it would be fun to start a Problem Of The Day Series. I will put up a problem and leave it running for a while. You guys will then analyze it, and come up with possible solutions and alternative solutions on your own. I'll eventually post the answer in some manner.

For now we'll play it by ear how that will happen and for how long I'll leave up a problem. But right now I'm thinking of keeping the problem up maybe 2 hours minimum and maybe even in some cases 4 or 5 hours depending upon the dynamics and my situation. Unlike my AMA (Ask Me Anything) livestream sessions, I will not be checking in every few minutes although I may from time to time join into the discussion. Again, the idea is for you guys to discuss out the problem.

Please be respectful to each other in this endeavor and let's make this fun, educational and forward-thinking. Keep the comments within the spirit of what I'm doing here. Please email me at GregsTutoringNYC@gmail.com if needed.

HERE'S THE PROBLEM: <—
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A pack of Oreo's can contain 36 cookies. The package is 75% filled. A pre-k class contains 30 kids but only 80% of the students showed up today. A teacher asked the class who wants an Oreo and one third said they wanted one. The teacher put that many onto a plate for them to take and eat. When the kids got up to wash their hands the teacher finds 3 Oreo's still on the plate and so returns them into the package. How many empty spaces does the Oreo package contain?

HERE'S THE SOLUTION:
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75% of 36 cookies means $36 \times .75 = 27$ cookies available
Instead of doing multi-digit multiplication quickly note that this is

$$\begin{array}{r} 36 \quad 3 \\ - - \quad x - \text{cancelling the 4 into 36 giving } 9 \times 3 = 27 \\ \quad 1 \quad 4 \end{array}$$

80% of 30 kids means $30 \times .8 = 24$ kids in attendance

One third of those in attendance wanted a Oreo $\therefore 24 / 3 = 8$ wanted an Oreo

8 put out on plate - 3 left = 5 taken and eaten

If there were initially 27 Oreos and 8 were taken out and 3 put back there is now 22. You can also look at it this way:

$$27 - 5 = 22 \text{ Oreos left}$$

As the package could hold 36 $\therefore 36 - 22 = 14$ empty spaces

- Greg / GregsTutoringNYC@gmail.com LLAP ☺