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) lifestream 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.

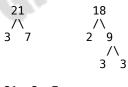
Please be respectful to each other in this endeavor and let's make this fun, educational and forward-thinking. Keep the comments within the spirit of what I'm doing here. Please email me at GregsTutoringNYC@gmail.com if needed.

HERE'S THE PROBLEM: <-_____

The QB99 Local bus leaves SHSAT Central every 21 minutes. The QB99 Express bus leaves SHSAT Central every 18 minutes. If they both leave at midnight, how many times a day do both buses leave together before finally heading to the depot?

HERE'S THE SOLUTION: _____

To find out how often they meet we could create a list and just see when they match. That @gmail.com can be tedious. Instead let's get the LCM. The prime factors of 21 and 18 are:



21: 3, 7 18: 2, 3, 3 .: LCM = $2 \times 3 \times 3 \times 7 = 126$

We could have also computed the prime list with a table:

2|21 18 3 21 9 3| 7 3 717 1 1 1

Gregs

This means the busses meet ands leave together every 126 minutes

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As 1 day = 24 x 60 = 1440 min .: 1440 / 126 = 11.42
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That's 11 times for sure, plus midnight .: 11 + midnight = 12
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- Greg / GregsTutoringNYC@gmail.com LLAP @