

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 poll of 600 students thought an average SHSAT cutoff score of 500 was reasonable. It turns out that a poll the year before of 500 students thought an average SHSAT cutoff score of 600 was reasonable. What is the average cutoff score thoughts across the two years of those polled?

- A) 550 B) $545.\overline{45}$ C) 1100 D) less than 550 but not enough info to determine
E) more than 550 but not enough info to determine

HERE'S THE SOLUTION:
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$$\text{Average} = \frac{\text{sum of the numbers}}{\text{number of numbers}}$$

$$500 = \frac{y1\text{sum}}{600}$$

$$\therefore y1\text{sum} = 500 \times 600 = 300000$$

$$600 = \frac{y2\text{sum}}{500}$$

$$\therefore y2\text{sum} = 600 \times 500 = 300000$$

$$Ay1y2 = \frac{y1\text{sum} + y2\text{sum}}{\text{numy1} + \text{numy2}}$$

$$Ay1y2 = \frac{300000 + 300000}{500 + 600} = \frac{600000}{1100} = 545.\overline{45} \quad \text{Choice B}$$

- Greg / GregsTutoringNYC@gmail.com LLAP ☺