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: <———
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I can answer the revising and editing section of a test half as fast as it takes me to answer the reading comprehension section of the test, and three times as fast as the math section of the test. There are no other sections on the test. If it took me 45 minutes to double check everything and the whole test was 3 hours, how many minutes did it take me to do the revising and editing section?

HERE'S THE SOLUTION:
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Because revising and editing (re) is half as fast as reading comprehension (rc) this means it is slower, re takes twice as long as rc. Similarly if re is 3 times as fast as the math (m) then re takes 1/3 as long as m.

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The ratio of re to rc is 2 : 1

The ratio of re to m is 1 : 3

Visually this gives us:

re : rc
2 : 1
re   : m
1   : 3

To metabolize these different units we can make a conversion for re : m by x 2:

re : rc
2 : 1
re   : m
2   : 6

Together that would give us:

re : rc : m
2 : 1 : 6

Which is comprised of 9 parts altogether.

Next: 3 hours = 60 x 3 = 180 minutes

180 minutes − 45 minutes to double check = 135 minutes

135 / 9 = 15 minutes per part

∴
re is 15 x 2 = 30 min   This is the answer
rc is 15 x 1 = 15 min
m is 15 x 6 = 90 min
(We didn't need to compute the other two except to double check)

Double checking: 30 + 15 + 90 + 45 = 180 min / 60 = 3 hours

— Greg / GregsTutoringNYC@gmail.com   LLAP 🖖