

Challenge Problem #42

Challenge problems are worth 30 points each. 6 points will be earned for the correct answer. This includes **appropriate units**. 12 points will be earned by **showing the mathematical process** used in getting the answer. The last 12 problems will be earned by **writing a complete explanation** of the reasoning used to solve the problem. Good luck.

We recently had a guest lecturer at our school. The topic was ‘How To Raise Honeybee’s Without Getting Stung’. The whole school was invited. The lecture lasted for 2 hours. One-third of the students stayed awake and listened to the entire lecture. One-sixth of the students slept through the entire lecture. Of the remaining students, one-half of them slept through one-third of the lecture and listened to two-thirds, while the other half slept through two-thirds of the lecture and listened to only one-third. What was the average time spent by the students listening to the lecture?