

Math 95 Homework Three

Your Forty Minute¹ Assignment:

- (1) Spend 10 minutes reviewing your ideas about Parts Two and Three of Homework Two. At the beginning of seminar tomorrow, students will be called upon to present on those questions.
- (2) Spend 20 minutes attempting to solve the School Problem below. If you succeed in solving the problem in less than 20 minutes, try to find at least one other method of solving the problem.

School Problem: A brother and sister attend the same school, and they walk from home to school using the same route. It takes the brother 24 minutes to walk to school, and it takes the sister 18 minutes to walk to school. If the brother leaves home three minutes earlier than the sister, will the sister pass the brother? If so, when? You may assume that the brother and the sister walk at constant rates.

- (3) Spend 10 minutes preparing to present your ideas to the School Problem in seminar tomorrow.

Remember that **it is not important that you present a correct solution to the problem**. Just be ready to present your ideas, partial or complete. We would also very much like to see any errors that you made while solving the problem, so even if you eventually solved the problem correctly, you are strongly encouraged to present your initial erroneous attempts to the class. Some of our most fruitful conversations about learning and teaching mathematics start with incorrect or incomplete solutions. Remember that we want to uncover and address misconceptions; we absolutely do not want to hide them.

Also note that you may present using a screen share of a prepared pdf file, or you may screen share on your tablet/ipad in real time, or you may show us your ideas on a personal whiteboard that you are holding in your hand. Whatever works for you will work for us; just be willing to try!

¹Of course you may spend more time on this if you feel inspired! :-)