Challenge Problem #6	

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

Joe and Mary are in a competition for grades. Each has taken 3 quizzes. Joeøs grades are 80%, 87%, and 91%. Maryøs grades are 89%, 75% and 88%. If Joe scores 82 on his next quiz, what is the <u>lowest</u> score that Mary must earn if she wants her average (rounded to the nearest percent) to be <u>higher</u> than his?