

ISE 441 – Introduction to Simulation  
In Class Assignment #1

1. Increase the sample size on the news vendor problem in Section 2.7.1 for 30 days to 150 days. As in the original problem, use the same realized demands in column E for all values of  $q$ . You do not need to change the histograms at the bottom of the columns. Based on your results, what sample size (in days) would be needed to bring the maximum half-width of all five confidence intervals down to  $\pm \$1.50$ ? Do not actually carry this out, just perform the necessary calculations and make your final answer obvious in the spreadsheet.

Submit this file to Wolfware before leaving class with In Class Assignment 1 Part 1 in the filename. The latest time to submit the file is 10:15 AM. If the file has not been submitted by then, you will receive a zero for this in-class assignment.

2. Based on the spreadsheet you created in problem 1, try to hone in more precisely on the optimal value of  $q$ . When you are finished, you should leave the 5 best values of  $q$  at the top of your spreadsheet. Keep the sample size at 150 days.

Submit this file to Wolfware before leaving class with In Class Assignment 1 Part 2 in the filename. The latest time to submit the file is 10:15 AM. If the file has not been submitted by then, you will receive a zero for this in-class assignment.