

Due Tuesday, Mar 19

Solve the following problems and staple your solutions to this cover sheet.

1. Exercise 6.48
2. Exercise 6.49
3. Exercise 8.42
Note: Ignore the last sentence!
4. Exercise 8.43
5. Exercise 8.58
Correction: 1500 adults not 1504.
6. Exercise 8.60
7. Exercise 8.61
8. Exercise 8.68
9. Exercise 8.69
10. Let Y_1, \dots, Y_n be independent, uniformly distributed random variables on the interval $[0, \theta]$. Find the probability density function of the 1st-order statistics $Y_{(1)} = \text{Min}\{Y_1, \dots, Y_n\}$ and its mean.