Reminder: To receive full credit for your homework, include as part of your solution a brief description of the problem that provides context.

This assignment includes problems related to sampling distributions and estimation of a population mean.

1. Exercise 5.40 (page 180)

2. Exercise 5.41(b) (page 180) except use R to compute the probability exactly. Then, do the normal approximation. Note that $\Pr\{0.15 \leq \hat{p} \leq 0.25\} = \Pr\{3 \leq Y \leq 5\}$. Find the area between 2.5 and 5.5 under a normal curve whose mean and standard deviation agree with the mean and standard deviation of the approriate binomial distribution.

3. Exercise 5.47 (page 181).

4. Exercise 6.4 (page 188).

5. Exercise 6.5 (page 188).

6. Exercise 6.9 (page 198).

7. Exercise 6.10 (page 198).

8. Exercise 6.11 (page 198).