

22S:30/105, Statistical Methods and Computing
Instructor: Cowles Spring 2013, Homework 9b

Due: Wed. Apr. 24 in class

1. Textbook problem 20.31. Check whether the rules of thumb for using the normal theory approximation are met. Then compute the requested confidence interval 3 ways:
 - (a) By hand using the normal approximation.
 - (b) By hand using the plus four method.
 - (c) With SAS to get the exact confidence interval.

Is there very much difference in this case? Why do you think it turned out that way?

2. Textbook problem 20.33. In addition to doing all parts of the problem by hand, use SAS to carry out the hypothesis test. Compare results.
3. Textbook problem 20.34.
4. Textbook problems 21.19, 21.20, 21.21
Use SAS to get p-values for the Chi-square test in question 21.19 and the exact confidence interval in question 21.20. Calculate the confidence interval in question 21.21 by hand.
5. Textbook problems 23.40, 23.42, 23.43