Turn in your homework in lecture or in your TA’s mailbox by 4pm on Thursday Feb 23. Make sure you write your name and your discussion section. **Show your work** to get full credit.

0. Draft 2 on data display is actually due Tuesday Feb. 21: continue exploring the data.

In assignments and in exams, your conclusion to each hypothesis test should include the p-value and a clear interpretation of the result, where the null and alternative hypotheses are explicitly stated in the context of the problem. For instance, this conclusion is okay: “there is strong evidence that the probability of having a son is different from 0.51 for male radiologists (p-value=0.0027)”, but this conclusion is not okay: “we reject $H_0$ (p-value=0.0027)” if $H_0$ and $H_A$ are not defined anywhere else. Replacing “p-value=0.0027” by “p-value<0.005” or would be okay.

1. Problems 11, 17 and 18 on pages 146-147 (Chapter 6).

2. Problem 23 on page 172 (Chapter 7).

3. Problem 20 on pages 171-172.

4. Problem 21 on page 172. For (b), answer the question using a hypothesis test.

Reading: Interleaf 2, Chapters 6, Interleaf 3 and Chapter 7 (including sections 7.2-7.3).