

**Homeworks are due in Wednesday lecture and will be returned the following week in the discussion section.**

1. 10.50 (pg 433)
2. 11.2 (pg 475)
3. 11.6 (pg 476)
4. 11.8 (pg 481)
5. We consider data on the extent of cataract in mice treated with radiation (which induces cataract) and given varying doses of genestein (which, it is hoped, might prevent cataract). The response is a measure of the extent of cataract.

The data are available at the following.

<http://www.biostat.wisc.edu/%7Ekbroman/teaching/stat371/genestein.csv>

- (a) Use the `stripchart` function in R to create a dotplot of response in the three treatment groups.
- (b) Use R to construct an ANOVA table and test whether the treatment groups differ in their average response.
- (c) What do we conclude from these data?