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

- 1. You and a friend were reading a paper in the *Journal of the American Medical Association* regarding the effect of treatment with allopurinol on blood pressure in adolescents. The article reported that the 95% confidence interval for the effect of treatment on systolic blood pressure was –4.5 to –9.3 mm Hg.
 - Your friend interpreted this by saying, "There's a 95% chance that the true effect is between -4.5 and -9.3 mm Hg." Is this a correct interpretation? Answer yes or no and explain briefly.
- 2. In discussing the article on allopurinol and blood pressure, your friend noted that the significance test of whether the treatment affected blood pressure gave a P-value of 0.009.
 - Your friend interpreted this by saing, "There's a 99.1% chance that the treatment affects blood pressure." Is this a correct interpretation? Answer yes or no and explain briefly.
- 3. 10.5 (pg 400)
- 4. 10.26 (pg 412)
- 5. 10.46 (pg 428): Use R to test for an association between type of therapy and psychotic relapses using:
 - (a) A χ^2 test (with chisq.test).
 - (b) Fisher's exact test (with fisher.test).