When answering the following questions, always explain the practical meaning of your conclusion(s). This is important especially when a null hypothesis is rejected - in each such case, give a qualitative description of the differences found to be statistically significant.

1. Answer Exercise 15.7 of your textbook, replacing their data by numbers supplied with this assignment.

2. Answer Exercise 15.20 of your textbook (note that there are **two** null hypotheses to be tested).

3. Continuation of the previous question: Suppose that every laboratory tested not 1, but 12 randomly selected 6-ounce packages of each type (the corresponding data is also supplied, conveniently organized in a 4 by 3 by 12 array). Perform the corresponding 3 tests of significance. What would a statistically significant 'interaction' imply?