

HW 7

1. In an experiment involving 16 mice the first 6 served as the control, the second 6 got treatment one and the last 6 got the second treatment. The observed y values were

```
y<-c(58,32,59,64,55,49,73,70,68,71,60,62,53,74,72,62,58,61)
```

Run an analysis of variance on these data to test if there are any differences among the three groups.

You could find the following command helpful.

```
Condition<-gl(3,6,18,label=c("Control", "Trt1", "Trt2"))
```

2. An experiment was done to compare three different methods of determining human lung volume. Each method was used on 6 different subjects resulting in 18 observations. These data are in lung in the ISwR library or in lung.txt on the class web site. Perform a two-way ANOVA these data. What conclusion can draw from the results.

3. An experiment was done to compare two different methods of preparation of a drug and three dosage levels on the amount of reduction that was observed in a subjects condition. These data are in twoway.txt on the class web page. Perform a two-way ANOVA these data. What conclusion can draw from the results.