Name_____ Date_____

## 10.6　Practice A

1. A randomized comparative experiment tests whether pet therapy affects the
   mood scores of hospital patients. The mood scores range from 1 to 10, with
   scores close to 10 indicating a good mood. The control group has eight patients
   and the treatment group, which receives the pet therapy, has eight patients.
   The table shows the results.

   | | Mood Score | | | | | | | |
   |---|---|---|---|---|---|---|---|---|
   | **Control Group** | 1 | 4 | 2 | 3 | 8 | 5 | 4 | 2 |
   | **Treatment Group** | 3 | 9 | 4 | 7 | 3 | 6 | 2 | 9 |

   a. Find the mean score of the control group.

   b. Find the mean score of the treatment group.

   c. Find the experimental difference of the means.

   d. Display the data in a double dot plot.

   e. What can you conclude?

   f. Resample the data using a simulation.

   g. Find the mean score of the new control group.

   h. Find the mean score of the new treatment group.

   i. Find the experimental difference of the new means.