

# Math 206 - Quiz 6

March 9, 2011

Name key

Score \_\_\_\_\_

Show all work to receive full credit. Supply explanations when necessary.

1. (1 point) If the mean weight of seven linemen on a team is 230 lb and the mean weight of the four backfield members is 190 lb, what is the mean weight of the 11-person team?

$$\frac{7(230) + 4(190)}{11} = \frac{2370}{11} \approx \boxed{215.45 \text{ lbs}}$$

2. (2 points) What is the difference between a line plot and a line graph? Give an example of a situation where one would be an appropriate display, but not the other.

A LINE PLOT DISPLAYS A COLLECTION OF SINGLE NUMBERS BY PLACING DOTS CORRESPONDING TO THE DATA NUMBERS ABOVE A NUMBER LINE.

A LINE GRAPH DISPLAYS A COLLECTION OF ORDERED PAIRS WHERE THE PAIRS ARE PLOTTED AND CONNECTED WITH LINE SEGMENTS. A LINE GRAPH COULD BE USED

3. (1 point) Sketch the stem-and-leaf plot for the following collection of scores: TO DISPLAY GAS PRICES OVER TIME.

~~74, 68, 86, 74, 92, 87, 75, 72, 74, 88, 83, 77~~

6	8
7	2 4 4 4 5 7
8	3 6 7 8
9	2

4. (1 point) Use your calculator to compute the mean and standard deviation of the scores above.

$$\bar{x} \approx 79.17$$

$$s \approx 7.32$$