

NAME \_\_\_\_\_

Feb 12 2025

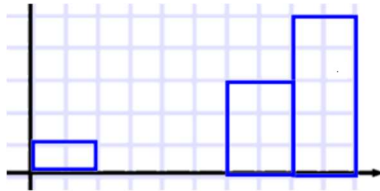
Ch 3 Central Tendencies, Std Deviation, +

STATISTICS Quiz #3

Prof. Battaly

Answer problem 1. Then answer any 2 of the problems 2 through 4. (10 pts total). Show all your work! ie: Include formulas & substitutions, and explanations of how you arrive at your answers.

1. From the distribution shown in the histogram,



which do you expect to be larger, the mean or the median? (2 pt)

\_\_\_\_\_

Why? (1 pt)

\_\_\_\_\_

**Problem 2.** (3.5 pt)

5 3 6 14 2 5 4 3 4 4

Find a) the median (2 pt)

b) Quartile 1 (3/4 pt) and Quartile 3 (3/4 pt)

Show all your work.

**Problem 3.** (3.5 pt)

5 3 6 14 2 5 4 3 4 4

a) Use the results of problem #2 to construct a boxplot. (3 pts)



b) Identify any outliers. (1/2 pt)

**Problem 4.** (3.5 pt)

a) State the defining formula for the sample standard deviation. (1 pt)

B) Given: 5 4 3 4 4

Find the standard deviation. Include substitution into the formula.. (2.5 pt)

X		