

Your Name: _____

Math 140: Statistics, February 26, 2008
Quiz 6, Chapter 8

1. (9 pts.) For the following table, find the correlation coefficient. Be sure to show your work and clearly identify intermediate values

x	y
1	1
3	4
4	5
5	3
7	7

2. (4 pts.) For a group of students, the average height is 62 inches with an SD of 2 inches and the average weight is 120 pounds with an SD of 10 pounds.
- a) Does the measurement 59 inches and 115 pounds fall on the SD-line?
- b) For a height of 65 inches, what weight would be needed for the measurement to fall on the SD-line?
3. (2 pts.) In a hypothetical mill-village, the mill owner argued that as wages increased, so did gin consumption. A statistical analysis of wages and gin consumption showed a correlation coefficient of -0.92 . What would you conclude?

Pledged: _____