Your Name: _____

Math 140: Statistics, Feburary 21, 2008
Quiz 5, Chapter 5, Sections 4 & 5

1. (8 pts.) Use this percentile table to answer the questions that follow:

Percent	Income
1	$0
10	$4000
25	$7000
50	$12,000
75	$19,000
90	$24,000
99	$50,000

   a) What is the percentage of incomes above $19,000?

   b) What is the percentage of incomes between $12,000, and $24,000?

   c) The most prosperous 10% have an income above what amount?

   d) What is the *interquartile range* for this data?

2. (3 pts.) If the applicants to a school have an average SAT score of 1260 with a SD of 80, what percentile rank would a student with a score of 1400 have?

3. (4 pts) Suppose you are given a list of heights measured in inches. The mean of the list is 68 inches and the standard deviation is 2.5 inches. When those heights are converted to centimeters, what is the new mean and new standard deviation? (Recall that there are 2.54 centimeters in an inch.)

Pledged: _____