Quiz 1

You are welcome to use a calculator for this quiz but realize the incorrect answer with no supporting work will receive no partial credit.

1. [2] The radio audience rating service Arbitron places the country's 13,838 radio stations into categories that describe the kind of programs they broadcast. The following is some of the data provided in Moore's Statistics book as example 1.2:

Format	Oldies	Rock	Country	Religious	News/Talk
Count of stations	1060	869	2066	2014	2179

Let's say that you plan to buy radio time to advertise your Web site for downloading MP3 music files. How helpful is the above data? Why?

2. [2] What possible values can the standard deviation s possibly take?

3. A UO instructor gave an exam in Math 111 to 20 students that yielded the following scores:

(a) [2] Create a histogram to record the data and describe the distribution.

- (b) [1] Calculate the 5 number summary of the above data.
- (c) [1] Calculate the mean (\bar{x}) and the standard deviation (s).
- (d) [1] Is the information summarized by \bar{x} and s or by the 5 number summary a better description of the data?
- (e) [1] What is the relation between the mean and the median? Is it what you expected?