Key

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?

reason to reason to

Not at all helpful,

rou are interested in contacting people. Just because one category of radio station has a lot of stations diesnot mean that the category will reach a lot of people.

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

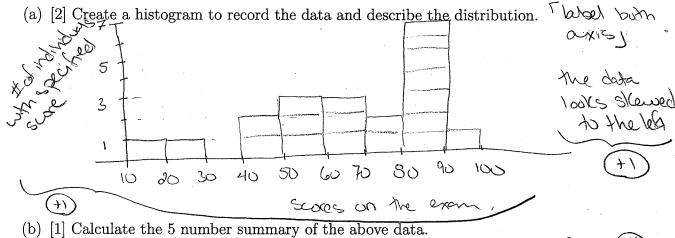
In 2#20 Any sorregative number

position to posture to amoors

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

> 16 42 69 41 50 70 70 80 81 82 84 85 87 89 97

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



(c) [1] Calculate the mean (\bar{x}) and the standard deviation (s).

97 83 16 51 69.5

Found to the nearest

X=65.3 => 65 S=21.9 >> 22

(d) [1] Is the information summarized by \bar{x} and s or by the 5 number summary a better description of the data?

5 # Sunney de the data is stewed to the left.

(e) [1] What is the relation between the mean and the median? Is it what you expected?

(13) { The mean is smaller than the median.

(13) { I did expect this since the data looks

Showed to the left.