

Name: _____

Problem Set 1.3

- 1.) You got an 82 on your first math test. The scores of the class (including yours) are in the table below. Use the CODAP file titled "**Math Test Scores**" to answer the following questions.

82	91
87	100
28	72
83	77
88	84
86	84

- a) Write a sentence of two that convinces your parents that you did really well on this test.
- b) Now write as if you are your parents and convince your son/daughter that they didn't do so well after all.
- 2.) In problem (1), assign each score to the variables with an index i , that is $s_1 = 82, s_2 = 91, \dots, s_{12} = 84$.
- a) Write an expression for the sum of the scores using sigma notation.
- b) Write an expression for the mean of the scores using sigma notation.
- 3.) Make up a data set of five data values in which the mode is negative and \bar{x} is positive.
- 4.) Make up a data set of five data values in which the mode is positive and \bar{x} is negative.

- 5.) In the 1996-1997 basketball season, Michael Jordan earned \$30,140,000. The rest of the team's salaries can be seen by opening the CODAP file called "Chicago Bulls".
- a) What is the mean salary of the team?

 - b) What is the median salary of the team?

 - c) If you read a newspaper story about the Chicago Bulls in 1996-1997 that used the mean as a measure of center, what type of "spin" would the writer be trying to use?

 - d) If you read a newspaper story about the Chicago Bulls in 1996-1997 that used the median as a measure of center, what type of "spin" would the writer be trying to use?