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 |

1. Write a sentence of two that convinces your parents that you did really well on this test.
2. Now write as if you are your parents and convince your son/daughter that they didn’t do so well after all.
3. In problem (1), assign each score to the variables with an index I, that is $s\_{1}=82, s\_{2}=91,…, s\_{12}=84$.
4. Write an expression for the sum of the scores using sigma notation.
5. Write an expression for the mean of the scores using sigma notation.
6. Make up a data set of five data values in which the mode is negative and $\overbar{x}$ is positive.
7. Make up a data set of five data values in which the mode is positive and $\overbar{x}$ is negative.
8. 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**”.
9. What is the mean salary of the team?
10. What is the median salary of the team?
11. 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?
12. 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?