

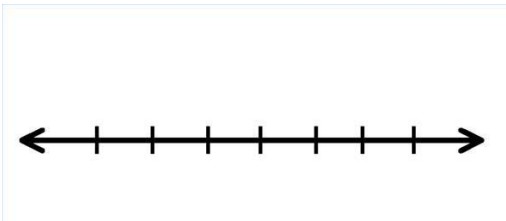
Name: \_\_\_\_\_  
Date: \_\_\_\_\_  
Class: \_\_\_\_\_

Algebra  
Unit 11  
EC

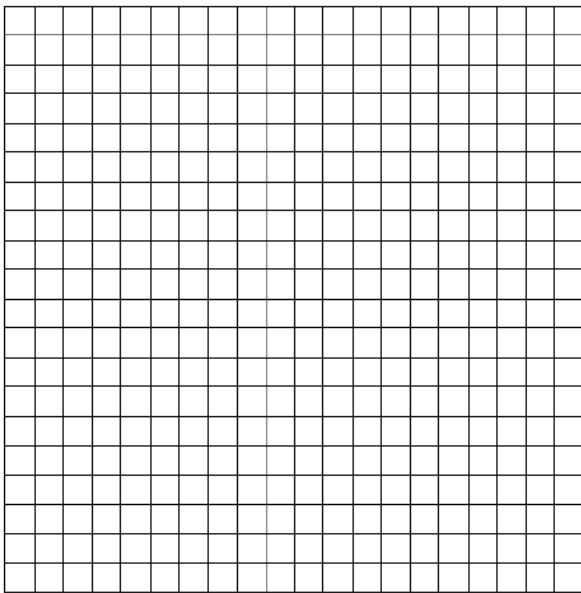
To be eligible to receive extra credit on the unit test you must have a score below 75. To receive extra credit you must score an 80% or higher on this assignment (anything lower results in no extra credit). If you earn extra credit is calculated in the following manner:  $\text{Old Test Score} + (75 - \text{Old Test Score})(2/3) = \text{New Test Score}$ . This assignment will not be accepted late for any reason other than missing the day of school it is due in which case it must be turned in the next day you are in school even if you do not have class.

1) [4] Using the following data, which are the last unit's English Test Scores, create a box plot.

72, 65, 48, 90, 76, 88, 80, 91, 55, 69, 72, 77, 88, 81, 89, 92, 47, 55, 84, 92, 99, 100, 44



2) [4] Using the data from #1, create a cumulative frequency histogram below.



3) [2] Using the data in #1, if you scored an 81, what percentage of people beat you on the test?

4) [3] Using the data in #1, if 3 students took the test late and all 3 got a score of 90. What is the difference in the mean now, versus before these 3 took the test?

5) [3] You take the first five Spanish tests of the semester and score 100, 90, 70, 50, and 80. There is one test remaining to take, which you do and after taking this test your average on tests for the semester is a 65. What did you score on the final test?

6) [2] The following are the number of times that a family at dinner in the living room during the last month. Find the median of this data  
3, 5, 7, 7, 10, 10, 9, 8, 9, 3, 3, 4, 5, 4, 6, 8, 9, 9, 7, 3, 9, 9, 7, 9, 10, 5, 8, 8.

7) [5] You realize that when you wrote down the data you left off one data point but you can't find your original list. This missing data point does not change the mode, but it makes the median go up and changes the mean to 7.724 (rounded to the nearest thousandth). What was the data point that you lost? Would this data point have a statistical name and if so what would it be?