Question #3 - What is the Story Unit Test

Name: _____

1. Samuel recorded the following track times (in seconds) for the 100M back crawl among 25 swimmers.

113 124 99 92 76 100 83 99 77 110 81 105 93 102 120 116 125 114 93 113 78 86 118 101 111

a) Use the data above to create a stem-and-leaf plot.

For the following three questions, please show your work, or tell me how you calculated it.

b) What is the mean of the data?

c) What is the median of the data?

d) What is the Mode of the data?

2. If Samuel recorded another time of 58 seconds for another swimmer. Which measurement of central tendency will be most affected by adding this time to her data? How do you know? SHOW YOUR WORK!!!!! EXPLAIN!!!!!

3. Draw a histogram using the above data (without the extra time of 58 seconds). Use a scale that increases by increments of 2. DO NOT FORGET ALL THE ESSENTIAL ITEMS YOU NEED TO INCLUDE ON A GRAPH!!!!

4. Indicate whether each of the following are variables of *categorical, discrete, or continuous* data.

   a) The relationship between your age and your height: _____

   b) The class scores on a math test: _____

   c) The pressure felt from school work using a scale of very little, little, some, a lot. _____

   d) The distance between Brantford city hall and Toronto Union Square: _____

   e) The speed of a car: _____

   f) The time it takes you to drink a glass of water: _____

5. Explain the difference between primary data and secondary data.

6. Carla is really into sports. She wants to let an exchange student know what the favourite sport is for the grade

   8's at her school. To collect her survey results Carla does the following:

   a. She decides that she is going to survey 6 students

   b. Because 6 girls are also on her rep basketball team, she decides these will be the 6 people she will

      survey. That way she can get her survey done and over with tonight.

   Find at least three things wrong with Carla's sampling technique.

7.