

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Practice quiz 3

*No calculator allowed section*

- A. How long is the typical Wikipedia article? I pulled nine articles from Wikipedia using the random article tool, then counted their words. Here's what I got:

63      441      27      296      247      157      40      556      175

For this sample, calculate:

- A. The median.
- B. The midrange.
- C. The mode.
- D. Given that the mean is 222.44, compare and contrast the different measures of center. How are they similar? How are they different? What do they tell you?
- E. Make a box plot of the data. Make sure to label scale, quartiles, and outliers clearly.
- F. Make a histogram of the data in #1.
- G. What is something you notice about the distribution on the box plot you don't notice on the histogram as easily?

- H. What is something you notice about the distribution on the histogram you don't notice on the box plot as easily?

*Calculator allowed section*

2. For the data set in #1, calculate:
- A. The range.
  - B. The IQR.
  - C. The standard deviation.
  - D. Given that the MAD is 144.5, compare and contrast the different measures of spread. How are they similar? How are they different? What do they tell you?
  - E. Describe the distribution of the sample of Wikipedia articles using SOCS.
3. Calculate the percent change if last year you had \$50 in your bank account and this year you have \$58.
4. Calculate the percentile of the tenth best scoring essay in a class of 25 students. (Be careful!)
5. Calculate the z-score of a person scoring 90 points on a test that had a mean of 82 points and a standard deviation of 3.5 points.