

STAT 3332 Statistics for Life Sciences

Spring 2007

Quiz 1

Your Name (Please **PRINT**):

Your *Signature*:

1. Consider the following data set of 8 values listed in increasing order:

-120 -40 0 32 54 990 120,000 6,000,000

The *median* is (encircle best answer)

-40 32 $(32 + 54)/2$ 54 6,000,000

2. (Continuation) The *interquartile range* (IQR) is (encircle best answer)

(A) $6,000,000 - (-120) = 6,000,120$ (B) $54 - 32 = 22$ (C) neither (A) nor (B)

3. *Adding* the constant 3 to each value in a data set (encircle best answer)

- (A) adds 3 to the mean
- (B) adds 3 to the median
- (C) adds 0 to the standard deviation
- (D) each of (A), (B) and (C) is true
- (E) none of (A), (B), and (C) is true

4. *Multiplying* each value in a data set by the constant 3 (encircle best answer)

- (A) does not change the mean
- (B) does not change the median
- (C) does not change the standard deviation
- (D) does not change any of the mean, median, and standard deviation
- (E) changes each of the mean, median, and standard deviation

5. Suppose that the *80th percentile* of a data set of driving speeds observed in a certain location is 67 miles per hour (mph). How many of these data points are ≤ 67 mph? (encircle best answer)

none half 20% 80% all
