Name:_____ Date: _____

Algebra 1B Unit 7

Statistics Quiz REVIEW

Part I: Select the choice that best answers each question.

1. Which data would be considered **quantitative**? Number

(1) The number of students in the 8th grade.

(2) Opinions of students on clothing trends.

(3) How students feel about science.

(4) Asking a student whether he buys or brings lunch.

2. Which data would be considered **qualitative**? Description

(1) The heights of the tallest buildings in NYC.

(2) The number of teachers at Roslyn High School.

(3) The opinions of students about the cafeteria.

(4) The number of students in 4th period math.

(5)

3. Which is an example of **univariate** data? One Variable

(1) car mileage compared to car weight
(2) car mileage compared to car color
(3) car trunk capacity
(4) car length compared to car weight

4. Which of the following is an example of **bivariate** data? Two Variables (comparison)

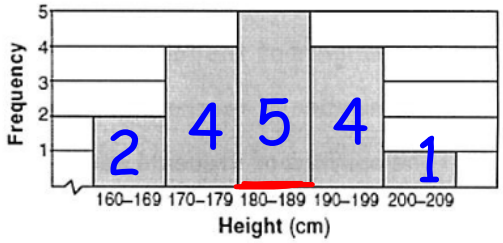
(1) the prices of a personal stereo in 8 different stores
(2) the amount of money raised by 2 students in a charity walk
(3) the price and the number of ounces of trail mix sold by 6 different companies
(4) the number of students in each of four grades in a high school

5. Which statement is true about the data set 4, 5, 6, 6, 7, 9, 12?

(1) mean = mode
(2) mode = median
(3) mean < median
(4) mode > mean

Mean = 7
Median = 6
Mode = 6

Use the histogram to answer questions #6 and #7. The accompanying histogram shows the heights of the students in Kyra's health class.



6. What is the total number of students in the class?

(1) 5
(2) 209
(3) 16
(4) 12

2+4+5+4+1

7. Which height range would represent the mode for this data?

(1) 160 - 169
(2) 170 - 179
(3) 180 - 189
(4) 190 - 199

most

Part II: Answer each question completely. Partial credit will be given when appropriate.

8. Given the set of data: 11, 22, 28, 34, 46, 49, 56, 58, 66, 66, 77, 79, and 81, construct a box and whisker plot on the number line.

Min = 11

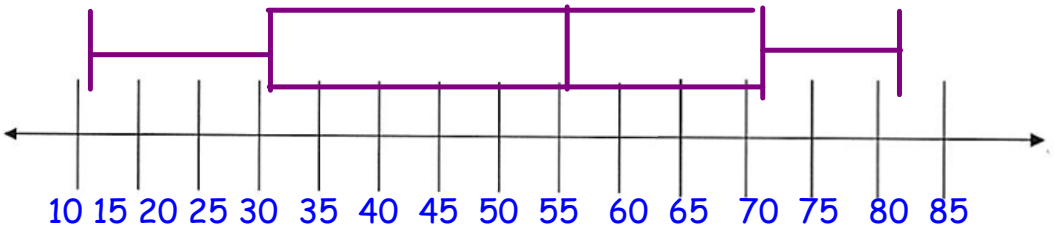
Q1 = 31

Med = 56

Q3 = 71.5

Max = 81

minX=11
Q_1=31
Med=56
Q_3=71.5
maxX=81



9. The ages of eight people in a college algebra class are as follows:

24, 17, 28, 21, 26, 27, 17, 25

Which measures of central tendency (mean, median, and mode) best describe the data? Why?

Mean = 23.125

Median = 24.5

Mode = 17

17, 17, 21, 24, 25, 26, 27, 28

Mode Mean Median

Median because the majority of the data values are around 24.5 and only a few are significantly less.