Math 6 - Unit 6: Statistics

Unit 6 Study Guide #2

Name: _____

Class Period: 1   2   3   4   Date: _____

1) Explain the difference between a measure of *center* and a measure of *spread*. Give at least two examples of each.

_____

_____

_____

2) What information does a histogram provide?

_____

_____

_____

3) Use the following data to create a box plot:

Ages of Students Who Downloaded "The Hunger Games" at Fiction Secondary School								
11	12	15	16	19	16	15	13	13

Identify:

Minimum: _____

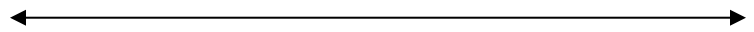Lower Quartile: _____

Median: _____

Upper Quartile: _____

Maximum: _____

4) Create a dot/line plot of the following data:

Push-Ups Completed by Students During a Fitness Test					
3	3	10	1	0	2
3	7	0	12	2	5
0	2	8	10	11	2

5) Find the Mean, Median, Mode, Range, Q1, Q3, IQR and any Outliers for the following quiz scores: 92, 85, 80, 95, 88.

Mean: _____   Q1: _____

Median: _____   Q3: _____

Mode: _____   IQR: _____

Range: _____   Outliers: _____

Use the following data for questions 6 & 7.

Number of Text Messages per Minute					
6	8	4	1	10	3
5	2	0	2	3	3
12	5	2	1	3	2

6) Which set of intervals CAN be used for the data given?

    A. 0-2, 3-5, 6-8, 9-11, 12+

    B. 0-1, 2-5, 6-7, 8-15

    C. 1-2, 3-4, 5-6, 7-8, 9-10, 11-12
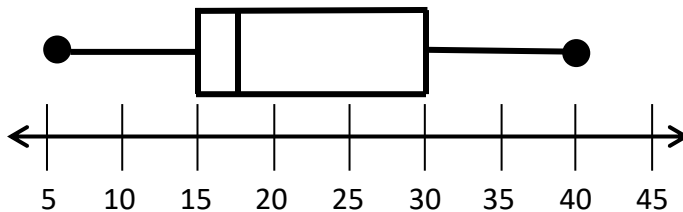
    D. 0-3, 3-6, 6-10, 10-13

7) Use the intervals and the data above to create a histogram:

8) Patton is surveying his awesome classmates in homeroom. Which question below is NOT a statistical question?

    A. How many One Direction songs are on your MP3?
    B. What was your highest grade on your last report card?
    C. How many kids are in your homeroom?
    D. How many "Diary of a Wimpy Kid" books have you read?

9) Identify the interquartile range from the box plot below. _____

10) Which measure is MOST affected by an outlier?

    A. Mean   B. Median   C. IQR   D. Mode