Measure of Central Tendency WS #2 Statistician: _____

1) Use the data and ***your calculator*** to determine each measure

No.	Last Name	Postion	Weight (lb)	Height	Age
34	Allen	SG	205	6'5'	38
11	Andersen	PF	245	6'10"	35
31	Battier	SF	220	6'8"	35
8	Beasley	SF	235	6'10"	25
1	Bosh	C	235	6'11"	30
15	Chalmers	PG	190	6'2"	27
30	Cole	PG	175	6'2"	25
0	Douglas	PG	195	6'2"	28
7	Hamilton	C	255	7'0"	24
40	Haslem	PF	235	6'8"	33
6	James	SF	250	6'8"	29
22	Jones	SF	215	6'8"	33
9	Lewis	PF	235	6'10"	34
20	Oden	C	273	7'0"	26
3	Wade	SG	220	6'4"	32

a. Weight of Miami Heat Players:

a) Mean =

b) Median =

c) Mode =

d) Range =

b. Age of Miami Heat Players

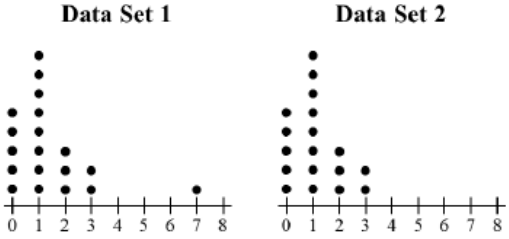
a) Mean =

b) Median =

c) Mode =

d) Range =

2. The frequency distributions of two data sets are shown in the dot plots below.

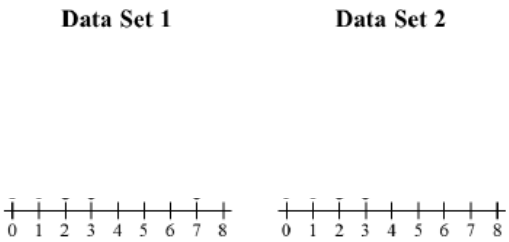


For each of the following statistics, determine whether the value of the statistic is greater for Data Set 1, equal for both data sets, or greater for Data Set 2.

	Greater for Data Set 1	Equal for Both Data Sets	Greater for Data Set 2
a. Mean	○	○	○
b. Median	○	○	○
c. Range	○	○	○

3.

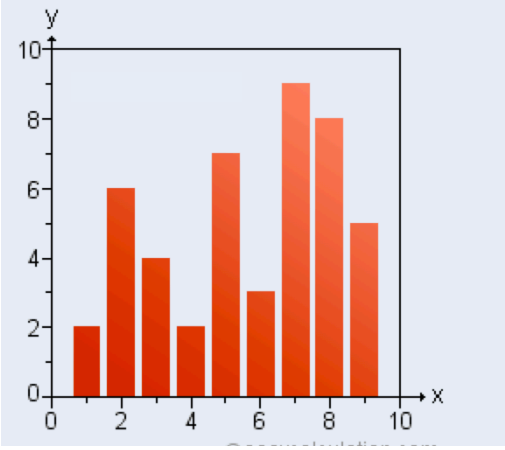
The frequency distributions of two data sets are shown in the dot plots below.



For each of the following statistics, determine whether the value of the statistic is greater for Data Set 1, equal for both data sets, or greater for Data Set 2.

	Greater for Data Set 1	Equal for Both Data Sets	Greater for Data Set 2
a. Mean	○	○	○
b. Median	○	○	○
c. Range	○	○	○

4. The Bar graph at right shows the results of high school students who were asked the question, "How many pairs of jeans do you own?"



Number of pairs of Jeans owned

a) Find the mean.

b) Find the median.

c) If a last response was received of 12 pairs of jeans, how would the …

i) Mean change?

ii) Median change?

5. Emily's algebra grade depends on three tests and a final. The final is worth two regular tests. What grade must she get on the final to get an A (90% or above) in the course if her regular test grades are 95, 88 and 85?

6. The sum of the data points from a set of data is 741. The mean is 57. How many data points are in the set?

O (A) 13 O (B) 23 O (C) 18 O (D) Impossible to determine form this information

7. Finlandia High School has to select a girl for the long jump at the regional championship. Three girls are in contention. The results of the jump-off are shown at right (in meters).

Elsa	Ilsa	Olga
3.25	3.55	3.67
3.95	3.88	3.78
4.28	3.61	3.92
2.95	3.97	3.62
3.66	3.75	3.85
3.81	3.59	3.73

Hans says "*Olga has the longest average; she should go to the championship.*"

Do you think Hans is right? Explain your reasoning.

8. Create a set of numbers that has a median of 5 and a mode of 10.

9. Create a set of numbers that has a mean of 25 and a median of 30.

10. Your tests scores for 2nd semester are 85%, 92, 76, 95 and 88%. What do you need on last test to have a test average of 88%?