

2. At a pet store, a survey was taken asking how many pets each person had. The results were:

2, 5, 3, 1, 0, 4, 2, 7, 0, 2, 7, 3

Find the following:

Rearrange the data in least to greatest order: 0, 0, 1, 2, 2, 2, 3, 3, 4, 5, 7, 7

a. Use the set of data to find all of the following:

Minimum: 0 Maximum: 7

Range: 7 Mean: 3

Mode: 2 Median: 2.5

Lower Quartile: 1.5 Upper Quartile: 4.5 Interquartile Range

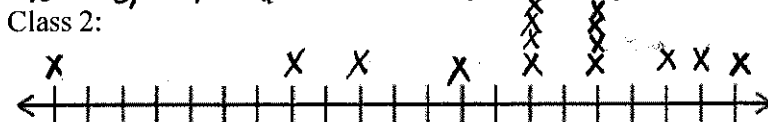
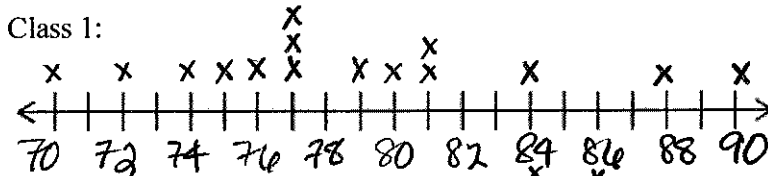
(IQR): 3

Mr. Turner has two Math 2 classes. With one class, he lectured and the students took notes. In the other class, the students worked in small groups to solve math problems. After the first test, Mr. Turner recorded the student grades to determine if his different styles of teaching might have impacted student learning.

Class 1: ~~80, 81, 81, 75, 70, 72, 74, 76, 77, 71, 71, 79, 84, 88, 90~~

Class 2: ~~70, 90, 88, 89, 86, 86, 86, 86, 84, 82, 71, 79, 84, 84, 84~~

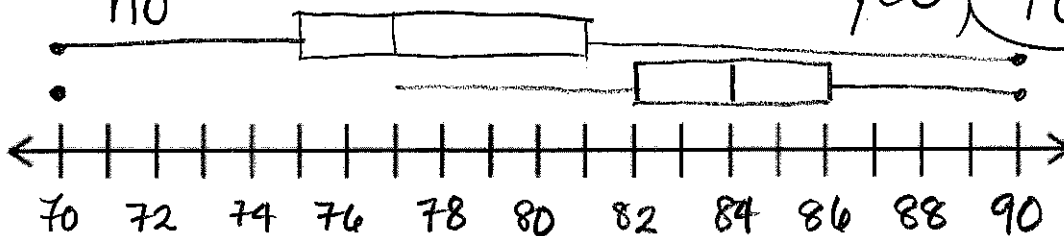
1. Create a dot plot for each class below.



2. Create two box-and-whisker plots (on the same number line) for each class below.

Class 1:
 Min 70
 Max 90
 Median 77
 Q1 75
 Q3 81
 Outliers? no

Class 2:
 Min 70
 Max 90
 Median 84
 Q1 82
 Q3 86
 Outliers? yes, 70



3. Calculate the measures of center and measures of spread below for each class.

Class 1:
 Mean 78.7
 Mode 77
 IQR 6
 Range 20
 MAD 4.25

Class 2:
 Mean 83.7
 Mode 84
 IQR 4
 Range 20
 MAD

	Data	Deviation from Mean	
Sum	1181	Sum	63.7
Count	15	Count	15

	Data	Deviation from Mean	
Sum	1255	Sum	53.1
Count	15	Count	15

Mean 78.7 MAD 4.25

Mean 83.7 MAD 3.54

4. Create two histograms (separate) for each class below.

Class 1				
70-75	76-80	81-85	86-90	
4	6	3	2	

Class 2				
70-75	76-80	81-85	86-90	
1	2	5	7	

