Unit 1: Inferences and Conclusions from Data
Prerequisite Skills "Are You Ready?" Check

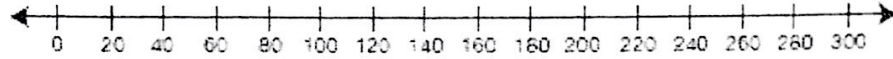Name _____

Period _____

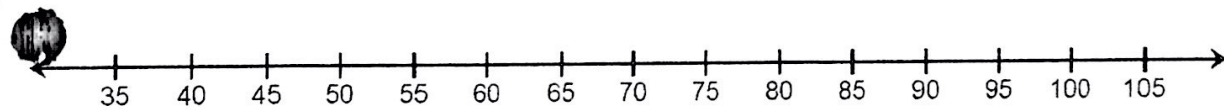**Construct a box and whisker plot with the following pieces of data:**

Minimum = 129, Q1 = 138, Median = 152, Q3 = 190.5, Maximum = 196

2. Construct a box and whisker plot for the following data:

Math Scores: 80, 75, 90, 95, 65, 65, 80, 85, 70, 100, 40, 70, 90, 75, 55
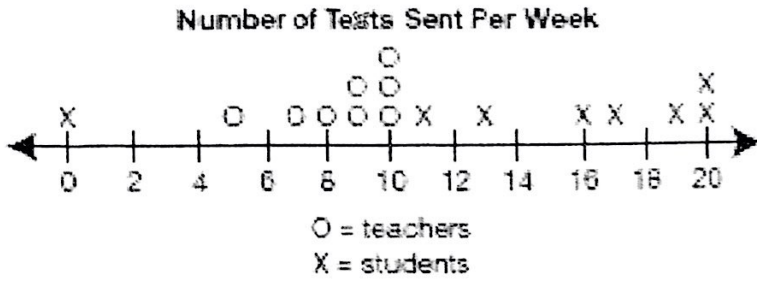
Mean: _____   Median: _____   Maximum: _____

Minimum: _____   First Quartile: _____   Third Quartile: _____

IQR: _____   Outliers: _____

3. Calculate the mean and mean absolute deviation in the table below:

Data	Mean	Deviation From the Mean	Absolute Value of the Deviation From the Mean
19			
26			
45			
73			
27			
		Mean Absolute Deviation	

4. The dot plot below shows the number of texts sent per week by teachers and students. Describe the distribution of both sets for the line plot shown below:

Number of Texts Sent Per Week

```
                    O
                  O O
              O O O O X    X        X X    X X        X
  X       O   O O O O X    X        X X    X X
  +---+---+---+---+---+---+---+---+---+---+---+---+---+--->
  0   2   4   6   8   10  12  14  16  18  20
```

O = teachers
X = students

Which number of texts occurred with the greatest frequency?

What is the range of the number of texts sent per week?
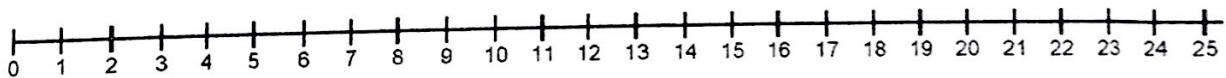
What is the mean of the teacher's text?

What is the maximum for all text?

5. Construct a dot plot for the two data sets below. Plot quiz #1 above the axis and plot quiz #2 below the axis,

Quiz #1 20, 15, 14, 20, 16, 19, 10, 21, 24, 15, 15, 14, 15, 21, 19, 15, 20, 18, 18, 22, 18, 16, 18, 19, 21, 19, 16, 20, 14, 12

Quiz #2 22, 22, 23, 22, 21, 24, 22, 19, 21, 23, 23, 25, 24, 22, 22, 23, 23, 23, 23, 22, 24, 23, 22, 24, 21, 24, 16, 21, 16, 14

Quiz #1

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
0  1  2  3  4  5  6  7  8  9  10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
```

Quiz#2

For each quiz which score occurred with the greatest frequency?

Use at least one complete sentence to compare the scores of Quiz #1 to the scores on Quiz #2.