**MA521  Honors Statistics**
**Median and IQR**

More with the bird counts…
Here they are in order from smallest to largest:

The *median* is a measure of the _____
of a distribution of a quantitative variable.

The *IQR* is a measure of the _____
of a distribution of a quantitative variable.

<u>5-Number Summary</u>:

| |
|---|
| 152 |
| 153 |
| 153 |
| 156 |
| 157 |
| 160 |
| 160 |
| 162 |
| 162 |
| 163 |
| 166 |
| 167 |
| 175 |
| 177 |
| 178 |
| 181 |
| 183 |
| 186 |
| 206 |
| 206 |
| 228 |

1.    Find the median.

2.    Find the Range.

3.    Find Q1 and Q3.

4.    Find the Interquartile Range (IQR).

**Rule of Thumb for identifying an outlier:**

Any value that is 1.5 IQRs below Q1 or _____
is considered to be an outlier.

I.   Here is the 5-number summary for the Bird Count data:

| | |
|---|---|
| Min | 152 |
| Q1 | 158.5 |
| Median | 166 |
| Q3 | 182 |
| Max | 228 |

Use this space to create a box plot.

150    160    170    180    190    200    210    220    230