

Instructions This quiz is a tool to help me (and you) assess how well you are understanding the assigned homework and course material. As such, you should report enough written detail for me to understand how you are thinking about each problem.

Different varieties of the tropical flower *Heliconia* are fertilized by different species of hummingbirds. Over time, the lengths of the flowers and the form of the hummingbirds' beaks have evolved to match each other. Below are data on the lengths in millimeters of one variety of these flowers on the island of Dominica.

1. Give the five-number summary for this distribution.
2. Make a boxplot for this distribution in the space provided on the accompanying graph.
3. The other two boxplots in the graph below are for two other varieties. What are the most important differences among the three varieties of flower?
4. For this distribution, the mean is $\bar{x} = 36.18$ and the standard deviation is $s = 0.98$. Show how to calculate this mean and standard deviation.

Flower lengths (in millimeters) for *H. caribaea* yellow

34.57
34.63
35.17
35.45
35.68
36.03
36.03
36.11
36.52
36.66
36.78
36.82
37.02
37.10
38.13

