

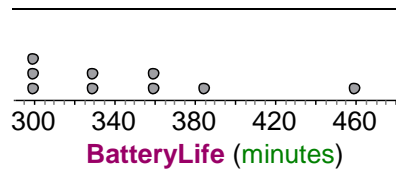
Section 1.2

1. Smart Phone Battery Life

Here is the estimated battery life for each of 9 different smart phones (in minutes) according to <http://cell-phones.toptenreviews.com/smartphones/>.

Smart Phone	Battery Life (minutes)
Apple iPhone	300
Motorola Droid	385
Palm Pre	300
Blackberry Bold	360
Blackberry Storm	330
Motorola Cliq	360
Samsung Moment	330
Blackberry Tour	300
HTC Droid	460

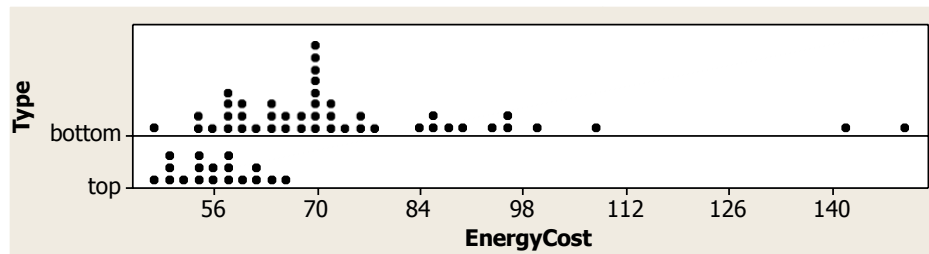
Here is a dotplot of the data:



Describe the shape, center, and spread of the distribution. Are there any outliers?

2. Energy Cost: Top vs. Bottom Freezers

How do the annual energy costs (in dollars) compare for refrigerators with top freezers and refrigerators with bottom freezers? The data below is from the May 2010 issue of *Consumer Reports*.



Compare the distributions of annual energy costs for these two types of refrigerators.

Who's Taller?

Which gender is taller, males or females? A sample of 14-year-olds from the United Kingdom was randomly selected using the CensusAtSchool website. Here are the heights of the students (in cm):

Male: 154, 157, 187, 163, 167, 159, 169, 162, 176, 177, 151, 175, 174, 165, 165, 183, 180

Female: 160, 169, 152, 167, 164, 163, 160, 163, 169, 157, 158, 153, 161, 165, 165, 159, 168, 153, 166, 158, 166

- Make a stemplot for the Male's Height.
- Now make a split stemplot for Male's Height. Explain which of the 2 stemplots is easier to read and give more information about the distribution of Male Height in the data.
- Now make a back-to-back stemplot comparing the male and female height distribution.
- Write a few sentences comparing the distributions of male vs. female height (Describe shape, center, and spread).