

Activity – One-Variable Statistics

The spreadsheet (link on blog) shows the results of a survey of 154 high school students

Make a copy of the spreadsheet in your own Google Docs account, or download it to use in Excel or in Excel Online.

Complete all work in your copy of the spreadsheet.

1. Determine each of the following:

	Age	Monthly Expenses
Mean		
Median		
Mode		
Standard Deviation		
First Quartile Q_1		
Third Quartile Q_3		
Range		
Interquartile Range		
Semi-Interquartile Range		

- For each datum (data value) for **Age** in the data set determine the **z-score** and the **percentile**.
- For each datum (data value) for **Monthly Expenses** in the data set determine the **z-score** and the **percentile**.
- For **each Age** reported, find the following measures of **Monthly Expenses**:
 - mean
 - median
 - mode
 - standard deviation
- Generate the following graphs:
 - circle graph (pie chart) for **Gender**
 - histogram for **Age**
 - histogram for **Monthly Expenses**
 - bar graph for **Pathway**