

Your Data Research – Activity

Name: _____

Date: _____

Directions:

- 1) Find a data set that you are interested in. The links below is easy to use. You can also collect your own data (in the classroom...not elsewhere).

<https://www.springboard.com/blog/free-public-data-sets-data-science-project/>

- 2) Find the mean, median, mode, range, Q_1 , Q_3 , and IQR of your data.
- 3) Graph your data in a box-and-whisker plot.
- 4) Summarize your data in a few sentences.

Example

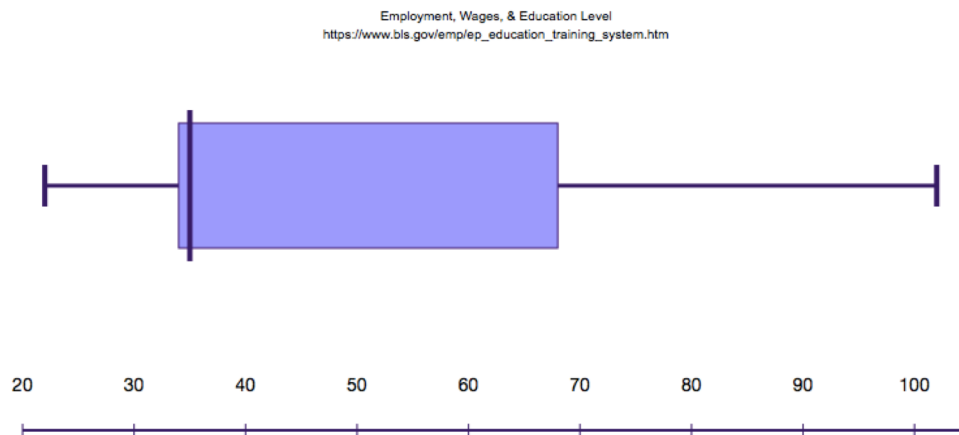
1) Data set: Looking at the Median Annual Wage

Employment, wages, and projected change in employment by typical entry-level education (Employment in thousands)				
Typical entry-level education	2016 Employment		Employment Change, 2016-26 (percent)	Median annual wage, 2016 ⁽¹⁾
	Number	Percent distribution		
Total, all occupations	156,063.8	100.0	7.4	\$37,040
Doctoral or professional degree	4,230.9	2.7	13.1	\$102,230
Master's degree	2,670.6	1.7	16.7	\$68,090
Bachelor's degree	33,372.4	21.4	10.1	\$71,550
Associate's degree	3,617.9	2.3	11.0	\$51,270
Postsecondary nondegree award	9,582.9	6.1	11.1	\$36,860
Some college, no degree	3,858.4	2.5	4.2	\$34,520
High school diploma or equivalent	61,504.1	39.4	5.1	\$35,540
No formal educational credential	37,226.7	23.9	6.4	\$22,410

2) mean: \$42,713 median: \$35,540 mode: \$35,540 range: \$79,820

Q₁: \$34,520 Q₃: \$68,090 IQR: \$33,570

3)



4) Summary: There is a large range in the data (\$79,820), but the data between Q1 and the median are very similar to each other. The data between the median and the max value vary greatly. Because of the variance in the upper 50%, the median would be more representative than the mean.