

The Descriptive Statistics Process

Step 0: The Data

0.87	0.90	0.91	0.86	0.90	0.93	0.87	0.88
0.91	0.88	0.88	0.73	0.86	0.81	0.82	0.85
0.89	0.88	0.88	0.86	0.87	0.90	0.8	0.93
0.83	0.94	0.92	0.89	0.93	0.86	0.84	0.83
0.91	0.91	0.82	0.84	0.89	0.93	0.84	0.90
0.88	0.94	0.86	0.85	0.75	0.91	0.88	0.86
0.84	0.87	0.72	0.96				

Step 1: Organize

The Frequency Distribution Table

<i>Class</i>	<i>Boundaries</i>	<i>Frequency</i>		<i>Cumulative Frequency</i>
1				
2				
3				
4				
5				
6				
7				

Step 2: Analyze & Describe

Graphically:

Histogram

Frequency Polygon

Cumulative Frequency Graph

Boxplot

Numerically:

5 Number Summary

Remove outliers from data

Mean

Standard Deviation

Comparison to the Empirical Rule

Step 3: Summarize

In complete sentences you must describe:

1. Center
2. Spread
3. Symmetry of distribution
4. Skew
5. Normal or not
6. Gaps
7. Outliers
8. Make a relevant statement about what this means to the data you are examining.

Justify your assertions by including numbers from your numerical analysis, and references to your graphs.