

# Project 1: Descriptive Statistics

Zack Garza

*Math 142: Elementary Statistics*  
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## CONTENTS

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### I. PART 1

The data set used for this analysis is “Data Set 8: Alcohol and Tobacco Use in Animated Children’s Movies” from Appendix B in *Elementary Statistics* by Triola. The data analyzed were the movie lengths in seconds.

Figure 1 shows the frequency distribution of the movie lengths.

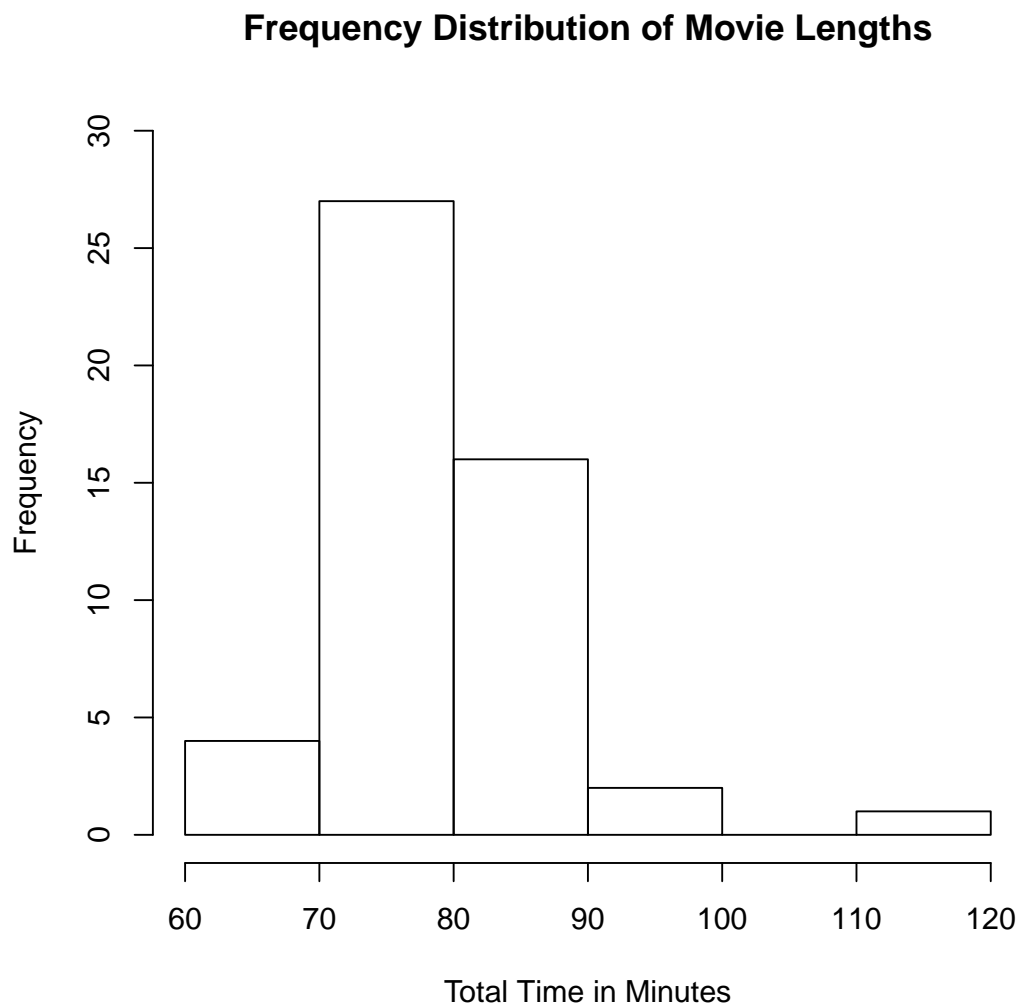


Figure 1. Running Times of a Sample of G-Rated movies.

## II. MEASURES OF CENTER

Mean: 79.2

Median: 77.5

Mode: 75

Midrange: 92

Range: 56

Sample Standard Deviation: 8.962507

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**5 Number Summary:**

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
64.00	74.00	77.50	79.20	82.75	120.00

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## III. MODIFIED BOX PLOT

Quantiles:

0%	25%	50%	75%	100%
64.00	74.00	77.50	82.75	120.00

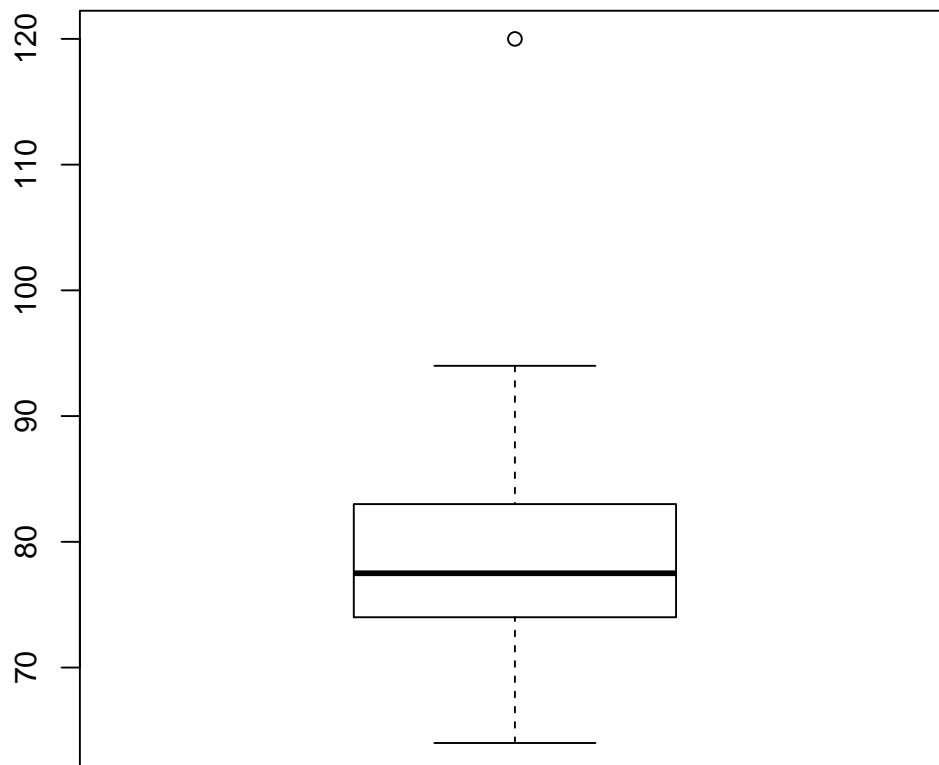


Figure 2. Modified Box Plot