1. A graph with blue and black bars

   Description automatically generatedThe below graphic is a histogram of total\_medals for all countries in all events. Describe the distribution of total\_medals for all countries in all events. Is there a skew, if so, what is it and what does it mean?

The data is right-skewed meaning that the values are clustered around the smaller values for total\_medals, so it is more common for nations to do poorly in Olympic rowing than well.

1. Using <medals.csv>, obtain the summary statistics for total\_points for all countries in all events and fill them in below.

**Minimum**: 0.00 **Lower Quartile:** 0.80 **Median**: 12.33 **Mean**: 54.62

**Upper Quartile**: 67.44 **Maximum:** 848.00

1. The USA has 94.2 points in the women's coxed eight event, determine whether or not that is an outlier. Use calculations to justify your answer.

Not an outlier

IQR = 66.64

1.5\*66.64 = 99.96

1. The below plot shows total\_medals ranked by NOC. Based on the distribution of this plot would it be fair to assume that economic welfare is a confounding variable in predicting nations’ performance in Olympic rowing? Explain why or why not.

A graph showing a number of medals

Description automatically generatedBased on this graph it would not be fair to assume that economic welfare is a confounding variable in predicting nations’ performance in Olympic rowing. If there was a GDP variable it may be easier to assess this.