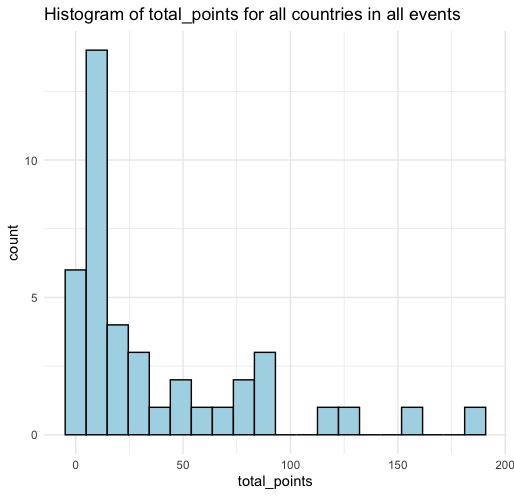
1. The below graphic is a histogram of total\_points for all countries in all events. Describe the distribution of total\_pointsfor all countries in all events. Is there a skew, if so, what is it and what does it mean?

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

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

**Minimum**: 1.00 **Lower Quartile:** 6.00 **Median**: 15.00 **Mean**: 38.15

**Upper Quartile**: 57.00 **Maximum:** 187.00

1. The UK has 154 total\_points in the dataset, determine whether or not that is an outlier. Use calculations to justify your answer.

An outlier

IQR = Q3-Q1 = 57-6 = 51

1.5\*IQR = 1.5\*51 = 76.5

Q3 +1.5\* IQR = 57 + 76.5 = 133.5

154 > 133.5

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 of a bar chart

Description automatically generated

Based 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.

\*\*\*\*\*ADD QUESTION ABOUT WHAT THIS MEANS SIGNIFCANCE\*\*\*\*\*\*