

## **PSTAT 5A: Homework 01**

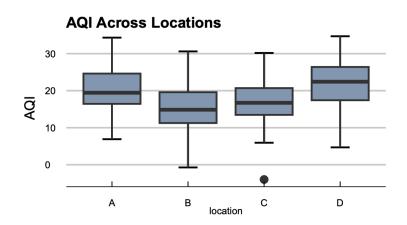
Summer Session B 2025, with Annie Adams

- **1.** Consider the list of numbers  $X = \{-3, -1, 0, 0.4, 0.7, 3.9, 6\}$ .
  - (a) Compute the mean of X.
  - (b) Compute median(X), the median of X.

(c) Compute the standard deviation of X.

(d) Compute the range of  $\boldsymbol{X}$  .

**2.** A researcher has collected measurements on the AQI (Air Quality Index) at several locations in Santa Barbara. She has labeled her locations A through D, and collected 100 AQI measurements from each location. The results of her study are displayed graphically below:



(a) What is the (approximate) median AQI at location A?

(b) Approximately what percent of AQI readings at Location D were less than 16?

(c) Are there any outliers at any of the locations?

readings?	Explain briefly.	