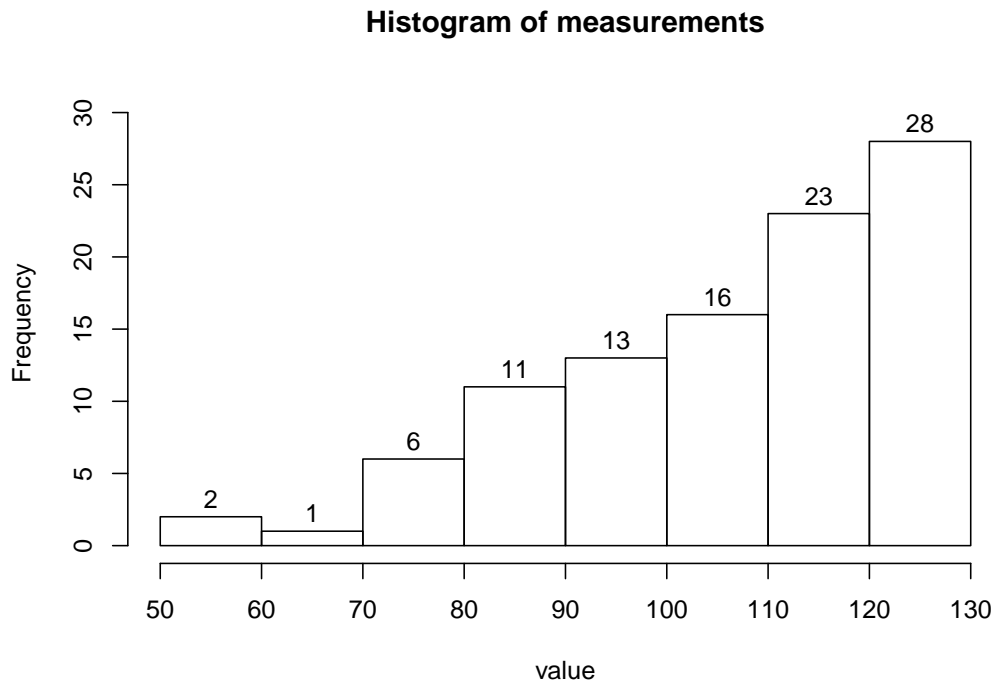


**1. Problem**

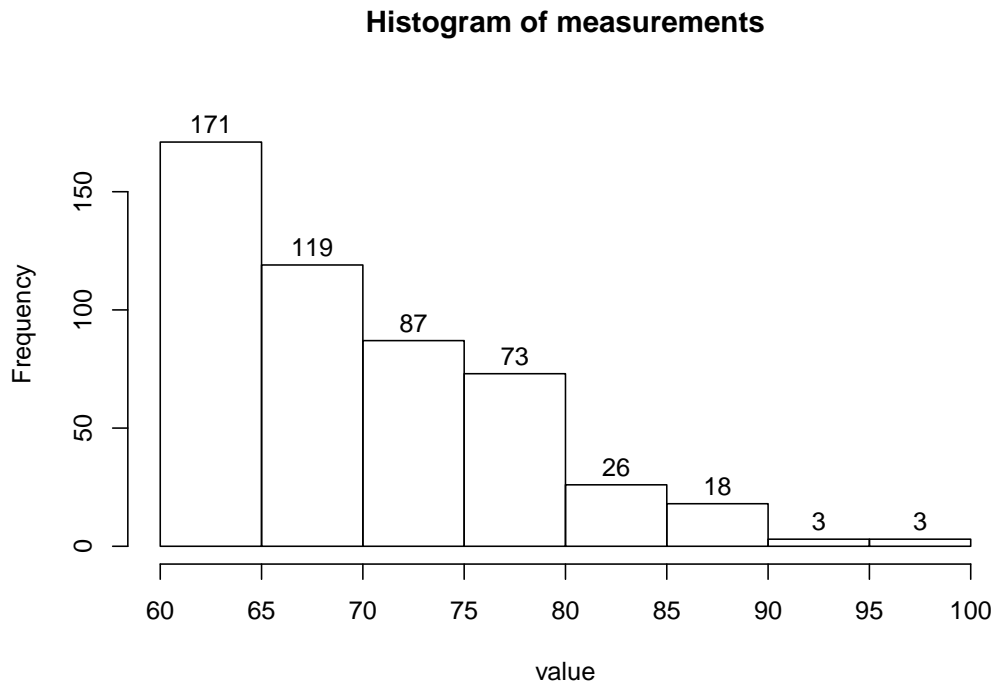
A continuous random variable was measured 100 times. The histogram is shown below.



- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 70?
- (d) What percent of the measurements are less than 90?
- (e) Of the measurements greater than 70, what percent are less than 90?
- (f) Estimate the value of the 49th percentile.

**2. Problem**

A continuous random variable was measured 500 times. The histogram is shown below.



- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are less than 70?
- (d) What percent of the measurements are greater than 65?
- (e) Of the measurements less than 70, what percent are greater than 65?
- (f) Estimate the value of the 95.2th percentile.