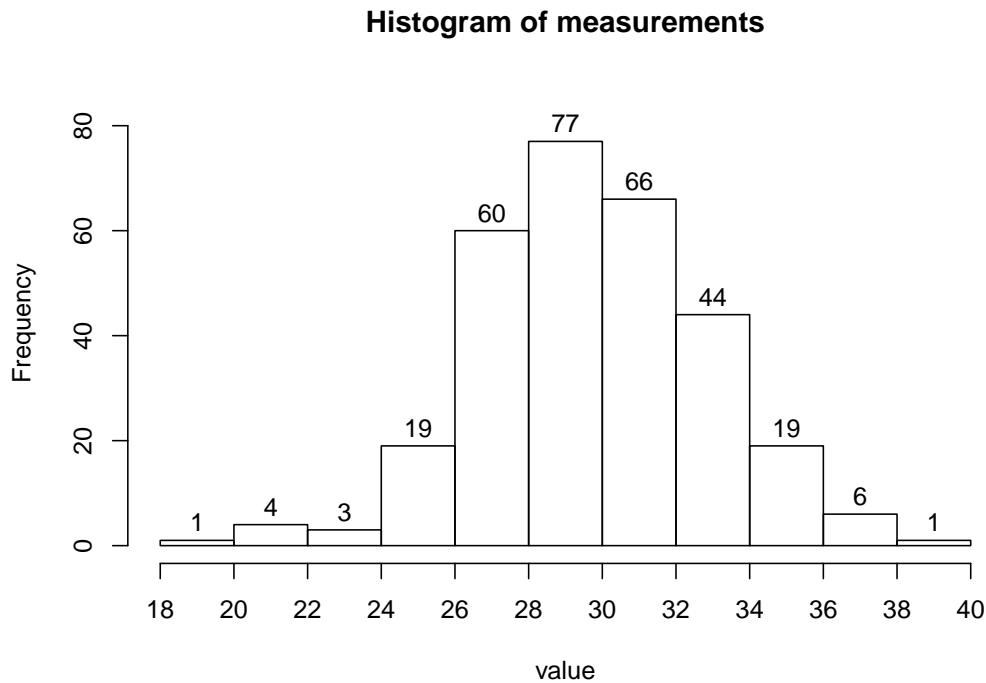


**1. Problem**

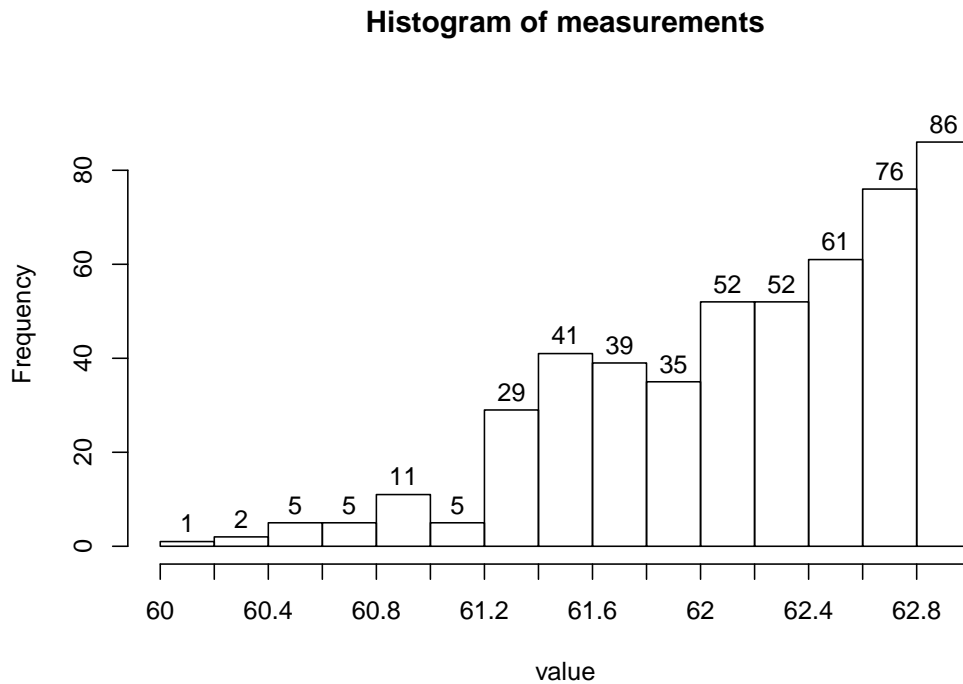
A continuous random variable was measured 300 times. The histogram is shown below.



- Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- Estimate the range of the distribution (range = max-min).
- What percent of the measurements are greater than 22?
- What percent of the measurements are greater than 38?
- Of the measurements greater than 22, what percent are greater than 38?
- Estimate the value of the 29th 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 greater than 60.6?
- (d) What percent of the measurements are less than 62.2?
- (e) Of the measurements greater than 60.6, what percent are less than 62.2?
- (f) Estimate the value of the 34.6th percentile.