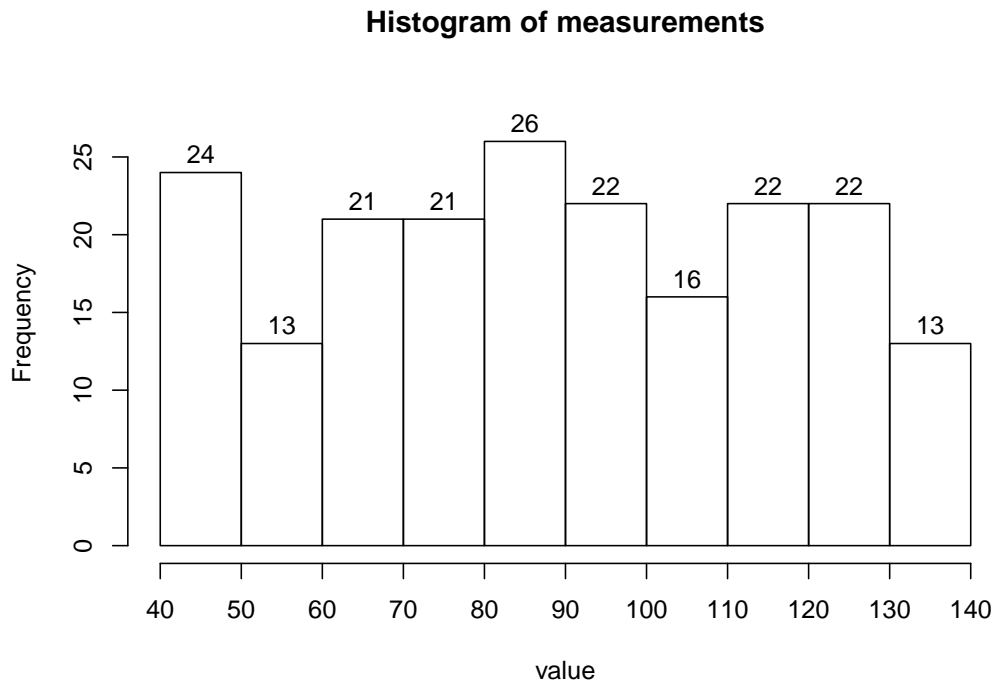


**1. Problem**

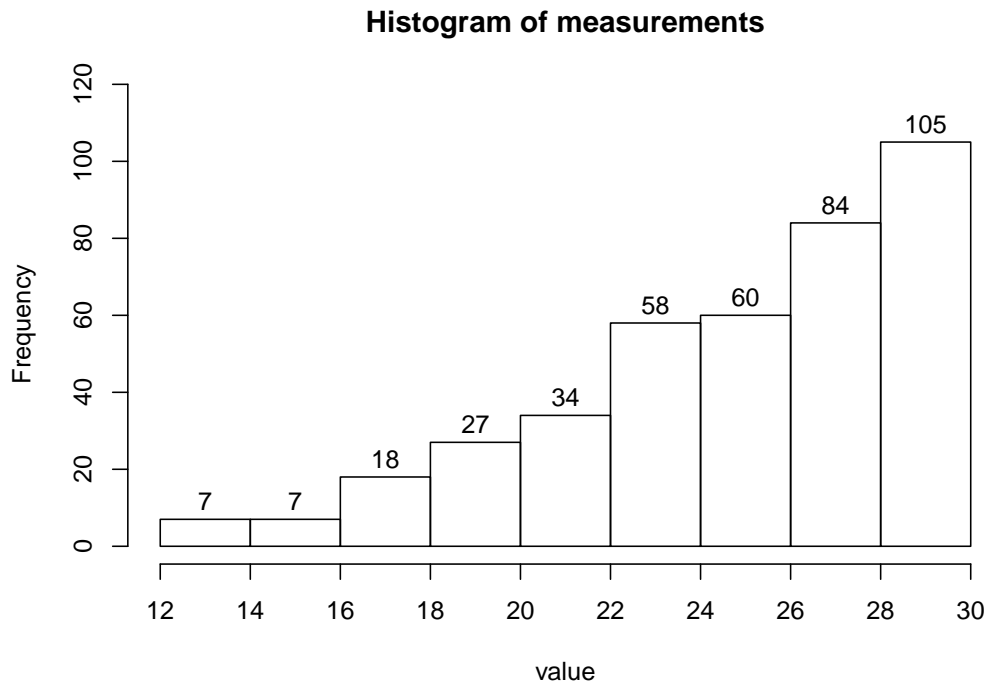
A continuous random variable was measured 200 times. The histogram is shown below.



- (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 110?
- (d) What percent of the measurements are greater than 130?
- (e) Of the measurements greater than 110, what percent are greater than 130?
- (f) Estimate the value of the 39.5th percentile.

**2. Problem**

A continuous random variable was measured 400 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 22?
- (d) What percent of the measurements are less than 16?
- (e) Of the measurements less than 22, what percent are less than 16?
- (f) Estimate the value of the 8th percentile.