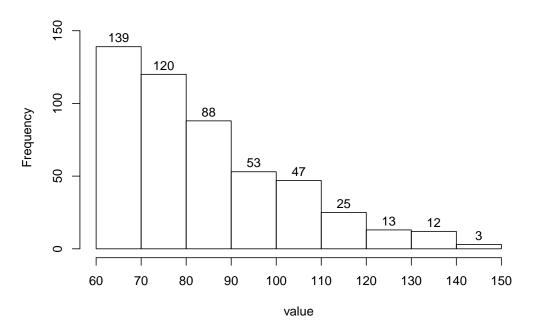
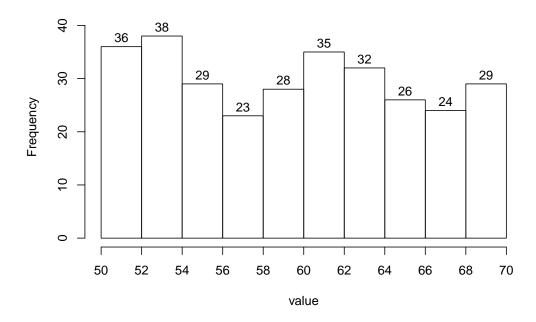
A continuous random variable was measured 500 times. The histogram is shown below.



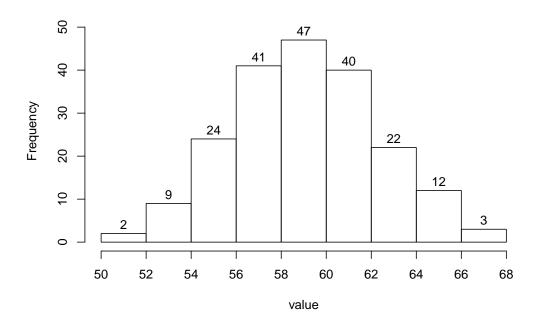
- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 110?
- (d) What percent of the measurements are less than 140?
- (e) Of the measurements greater than 110, what percent are less than 140?
- (f) Estimate the value of the 80th percentile.

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



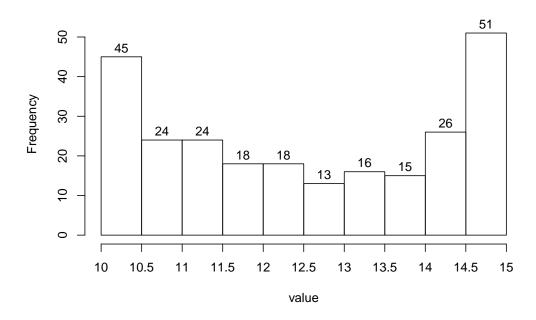
- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 54?
- (d) What percent of the measurements are less than 56?
- (e) Of the measurements greater than 54, what percent are less than 56?
- (f) Estimate the value of the 82.33th percentile.

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



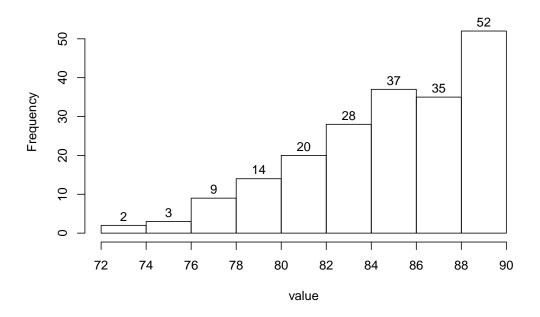
- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 62?
- (d) What percent of the measurements are greater than 66?
- (e) Of the measurements greater than 62, what percent are greater than 66?
- (f) Estimate the value of the 92.5th percentile.

A continuous random variable was measured 250 times. The histogram is shown below.



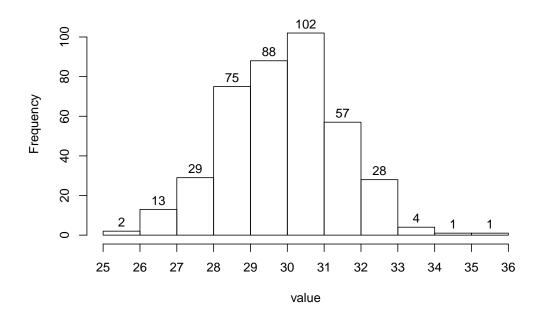
- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are less than 11?
- (d) What percent of the measurements are greater than 10.5?
- (e) Of the measurements less than 11, what percent are greater than 10.5?
- (f) Estimate the value of the 63.2th percentile.

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



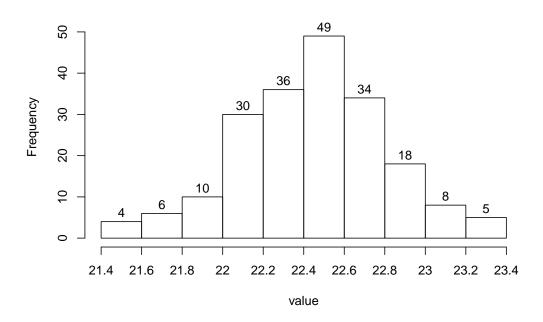
- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 76?
- (d) What percent of the measurements are greater than 84?
- (e) Of the measurements greater than 76, what percent are greater than 84?
- (f) Estimate the value of the 24th percentile.

A continuous random variable was measured 400 times. The histogram is shown below.



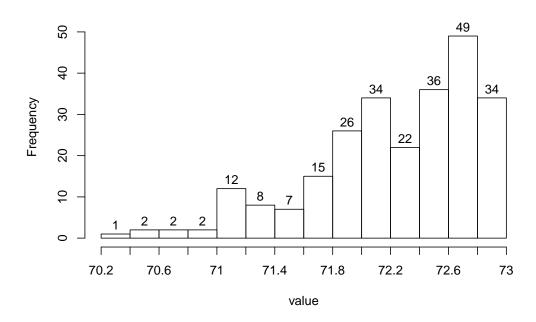
- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 30?
- (d) What percent of the measurements are greater than 31?
- (e) Of the measurements greater than 30, what percent are greater than 31?
- (f) Estimate the value of the 29.75th percentile.

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



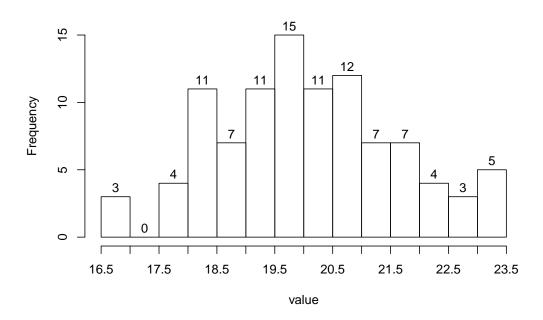
- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 22.6?
- (d) What percent of the measurements are less than 22.8?
- (e) Of the measurements greater than 22.6, what percent are less than 22.8?
- (f) Estimate the value of the 5th percentile.

A continuous random variable was measured 250 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 71.2?
- (d) What percent of the measurements are greater than 70.6?
- (e) Of the measurements less than 71.2, what percent are greater than 70.6?
- (f) Estimate the value of the 43.6th percentile.

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 less than 18.5?
- (d) What percent of the measurements are less than 17.5?
- (e) Of the measurements less than 18.5, what percent are less than 17.5?
- (f) Estimate the value of the 3th percentile.

- 1. (a) skew right
  - (b) 90
  - (c) 10.6%
  - (d) 99.4%
  - (e) 94.34%
  - (f) 100
- 2. (a) uniform
  - (b) 20
  - (c) 75.33%
  - (d) 34.33%
  - (e) 12.83%
  - (f) 66
- 3. (a) symmetric mound
  - (b) 18
  - (c) 18.5%
  - (d) 1.5%
  - (e) 8.108%
  - (f) 64
- 4. (a) bimodal
  - (b) 5
  - (c) 27.6%
  - (d) 82%
  - (e) 34.78%
  - (f) 13.5
- 5. (a) skew left
  - (b) 18
  - (c) 97.5%

- (d) 62%
- (e) 63.59%
- (f) 82
- 6. (a) symmetric mound
  - (b) 11
  - (c) 48.25%
  - (d) 22.75%
  - (e) 47.15%
  - (f) 29
- 7. (a) symmetric mound
  - (b) 2
  - (c) 32.5%
  - (d) 84.5%
  - (e) 52.31%
  - (f) 21.8
- 8. (a) skew left
  - (b) 2.8
  - (c) 7.6%
  - (d) 98.8%
  - (e) 84.21%
  - (f) 72.2
- 9. (a) symmetric mound
  - (b) 7
  - (c) 18%
  - (d) 3%
  - (e) 16.67%
  - (f) 17