HISTOGRAM HOMEWORK

TEXT: 2.2

LAST NAME	FIRST NAME	DATE

This homework should be done with R or a comparable technology, and should be uploaded to Canvas as an office document or a PDF.

For each of the following datasets,

(a) Construct a histogram.
(b) Describe the shape of the distribution.
(c) Describe *typical* measurements and conjecture how they might compare to the *average* measurement.

1. The `nhtemp` dataset of temperature measurements in New Haven, CT in °F.

2. The `trees$Volume` dataset of tree volumes in cubic feet.

3. The `faithful$eruptions` dataset of eruption times in minutes.

4. The `faithful$waiting` dataset of waiting times to the next eruption.

5. The `chickwts$weight` dataset of chick weights.

6. The `state.center$x` dataset of longitudes.

7. The `state.center$y` dataset of latitudes.

8. The `treering` dataset of tree-ring widths in dimensionless units.

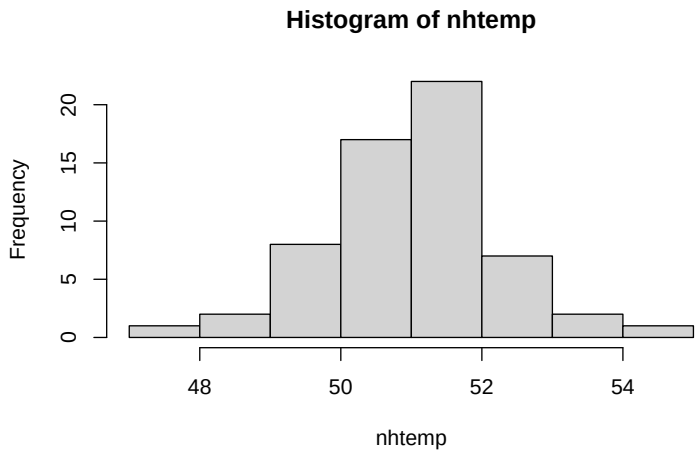
9. The `pressure$temperature` dataset of temperatures in °C.

10. The `pressure$pressure` dataset of pressures in minutes of mercury.

ANSWERS

1.

(a)

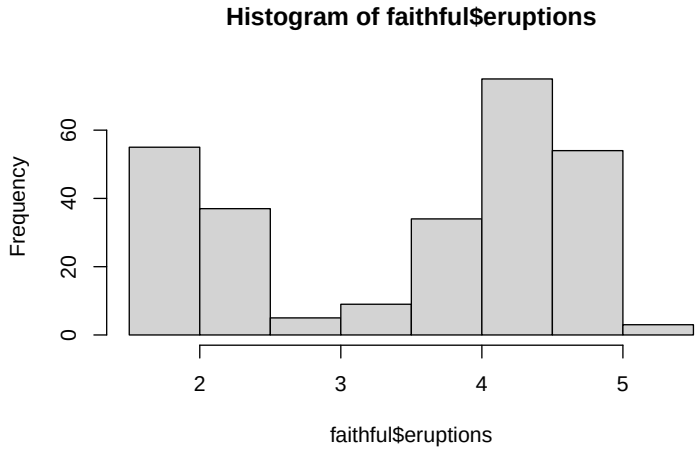


(b) Bell-shaped and symmetric

(c) A typical temperature is about 51°Fand the average is about the same.

3.

(a)



(b) Bimodal

(c) Typical eruption times are 2 minutes and 4.5 minutes, and the average is likely somewhere in the middle, around 3.5 minutes.