TUTORIAL SERIES
4 Estimation

1 Exercise

A sugar concentration measurement performed on eight samples from the same population produced the following results (in g/L):

$$19.5, \ 19.7, \ 19.8, \ 20.2, \ 20.2, \ 20.3, \ 20.4, \ 20.8$$

1. Determine the point estimates of the mean and standard deviation of this distribution.

2. What is the 95% confidence interval for the mean? What is the 99% confidence interval for the mean?

3. What is the 95% confidence interval for the variance?