

Statistics of One Variable

Specific Expectations	Section
Locate data to answer questions of significance or personal interest, by searching well-organized databases.	2.2
Use the Internet effectively as a source for databases.	2.2
Demonstrate an understanding of the purpose and the use of a variety of sampling techniques.	2.3, 2.4
Describe different types of bias that may arise in surveys.	2.4
Illustrate sampling bias and variability by comparing the characteristics of a known population with the characteristics of samples taken repeatedly from that population, using different sampling techniques.	2.4, 2.5, 2.6
Organize and summarize data from secondary sources, using technology.	2.1, 2.2, 2.5, 2.6
Compute, using technology, measures of one-variable statistics (i.e., the mean, median, mode, range, interquartile range, variance, and standard deviation), and demonstrate an understanding of the appropriate use of each measure.	2.5, 2.6
Interpret one-variable statistics to describe characteristics of a data set.	2.5, 2.6
Describe the position of individual observations within a data set, using z-scores and percentiles.	2.6
Explain examples of the use and misuse of statistics in the media.	2.4
Assess the validity of conclusions made on the basis of statistical studies, by analysing possible sources of bias in the studies and by calculating and interpreting additional statistics, where possible.	2.5, 2.6
Explain the meaning and the use in the media of indices based on surveys.	2.2