

Test L1. Descriptive Statistics, Distributions, Sampling

The data are located at <http://edu.modas.lu/data>

1. Look for the dataset **bmi**. This data contains body mass index (BMI) results measured in 10 developed and developing countries in 2000, 2008, and 2015. Please build the boxplot showing BMI in various countries. Now repeat for the years (transform year to factor as `.factor`).
2. A malacologist interested in the morphology of West Indian chitons, *Chiton olivaceous*, measured the length and width of the eight overlapping plates composing the shell of 10 of these animals. For the **chiton** dataset: (a) Calculate Pearson's and Spearman's correlations between the measures. (b) Illustrate by a scatter-plot
3. The **leukemia** dataset presents the number of white blood cells (WBS), patient survival in days, and an experimental AG-factor (positive/negative). Please investigate and visualize the data. For example, you could use: summary, scatter plot, boxplots, distributions and correlation.