



## PROPOSED EXERCISES UNIT 5

- 1) Using the values of the variable *Network hours* (Number of hours per week in social networks), answer to the following questions (sheet 'Social network hours'):
- Analyse the shape (skewness and kurtosis) of the distribution.
  - Use a box plot to present graphically this variable and comment on the result: Are there any outliers? Do the values of the variable follow a symmetric distribution or are they skewed? Compare the result with the shape observed in the graphic presentation obtained in practice 1.
  - Are the values of the average, median and mode in accordance with the shape identified in the previous questions?
- 2) Spanish National Statistics Institute collected the data relative to the size of households in Spain (2015) that are shown in the table (Sheet '*Households*')

Size of household (number of people)	Percentage of Households (%)
1	25
2	30.6
3	21
4	17.6
5	4
6	1.8

- What is the representativeness of the average size of households in 2015?
- In 2015, the average size of a household in Europe was 2.3 people with a standard deviation of 1.83 people. Where was the size of households more homogeneous, in Spain or in Europe?
- In 2015, where was a household with 6 people greater in relative terms, in Spain or in Europe?