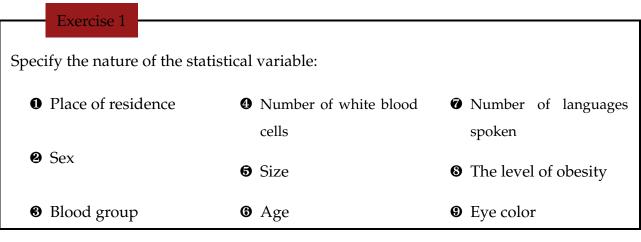
Series of exercises N 5



Exercise 2

The medical staff of a large company compiles statistics on the monthly sports practice of its employees. The observations on 88 employees are as follows:

x_i = Number of sessions per month	n _i	$n_i^c \uparrow$	fi	$f_i^c \uparrow$
8	7			
12	20			
16	23			
20	19			
24	14			
28	5			
Total				

• Determine the population, the character studied and give its nature.

- **2** Complete the table.
- Represent the statistical series graphically.
- Calculate mode, mean and median.
- Determine quartiles and interquartile range.
- **6** Calculate the range, variance, standard deviation and coefficient of variation.
- ⑦ Calculate the Pearson's skewness coefficient, and give the necessary conclusion.

Exercise 3

The following data specify the haemoglobin level in the blood (by class, in g/l) measured in 70 presumed healthy men. :

Classes	[105;115[[115;125[[125;135[[135;145[[145;155[[155;165[[165;175[[175;185[
n_i	0	0	3	4	18	19	12	14

• Determine the population, the character studied and give its nature.

② Complete the table with the cumulative absolute frequency n_i^c ↑, relative frequency f_i and cumulative relative frequency f_i^c ↑.

• Represent the statistical series graphically.

• Calculate mode, mean and median.

• Calculate the range, variance, standard deviation and coefficient of variation.