**Control Test 1**

**Description of the data**

The Excel file *control-1.xlsx* contains a table describing data about 30 patients. For each patient we have their blood pressure (column **B**), whether they are healthy (**0**) or sick (**1**) (column **D**). Blood pressure and height data are in a scale going from 1 to 5.

**1) Statistics**

Using the function **СЧЁТЕСЛИМН**, fill the two tables in columns **F, G and H**. For each line, which represents a level of the scale, count the quantity of patients with that level, which is

The function is used as **=СЧЁТЕСЛИМН(data range 1, value 1, data range 2, value 2)**.

Create a bar chart using the columns **G** and **H** of the two tables.

**2) Model**

The result of the exercise above should show that there is a strong connection between blood pressure and being sick.

Write a model for diagnosing sickness using the limit in cell **J2**. The patient will considered sick if their blood pressure is larger than the limit, and healthy otherwise. Use the function **ЕСЛИ** for that. Use 0 and 1 for positive and negative.

The function is used as **=ЕСЛИ(condition, value if true, value if false)**.

**3) Indicators**

Using the function **СЧЁТЕСЛИМН**, derive the model quality indicators.

Change the limit in cell **J2** to find the best result.