

# Descriptive Characteristics - Examples

(MS Excel)

## Example 1:

Weight of laid eggs was observed in layers in a poultry-raising. In a sample of 15 randomly selected layers, following values (in g) were measured:

39, 35, 38, 37, 35, 38, 36, 36, 37, 37, 35, 36, 38, 37, 40

*What is the mean value of the egg weight in layers and what's the standard deviation, variance, coefficient of variability and median of these weight values?*

## Example 2:

In a horse farm, Mg level in blood serum of horses was observed. In a sample of 15 horses, following values of Mg in blood serum were measured (in mmol.l<sup>-1</sup>):

0.83, 0.79, 0.82, 1.03, 0.82, 0.93, 0.90, 0.87, 0.89, 0.93, 0.97, 0.99, 1.24, 1.17, 0.87

*Find out following descriptive characteristics for the sample of Mg levels in blood serum of horses: average, median, standard deviation, variance, coefficient of variability and standard error of the mean (SEM).*

## Example 3:

In a sample of 20 layers, following values of body weight were measured (in kg):

2.4, 1.8, 2.1, 1.7, 2.0, 2.1, 2.0, 1.9, 2.3, 1.9, 2.1, 1.8, 2.1, 2.3, 1.9, 2.0, 2.2, 2.4, 1.9, 1.8

*Find out following descriptive characteristics for body weight of the observed sample of layers: average, standard deviation, variance, minimum, maximum and median. What is the standard error of the mean (SEM) and coefficient of variability of the sample?*

## Example 4:

Body weight of rabbits was observed in a laboratory breeding. Through weighing of 12 randomly selected rabbits, following values of body weight were found (in kg):

2.7, 4.3, 2.9, 2.7, 3.0, 2.8, 2.9, 2.9, 3.1, 4.1, 2.8, 2.7

*What is the mean value of the body weight in rabbits and what's the standard deviation and the variance for this weight? Find out the coefficient of variability and SEM for this body weight.*

**Create a protocol in Word that will contain (for each example):**

- **Results obtained from your calculations**
- **Conclusion (answer)**

*In answers (Conclusion), show calculated parameters with appropriate units!*