

The arithmetical mean is the average value of the samples. It is independent of the width of the intervals. It is symbolized as  $\bar{x}$  and it is only used for quantitative variables. We find it by adding up all the value and dividing by the total number of data.

The general formula for  $N$  elements is :

$$\bar{x} = \frac{x_1 + x_2 + x_3 + \dots + x_n}{n}$$

In a basketball match, we have the following points for the players of a team :

0, 2, 4, 5, 8, 8, 10, 15, 38

Calculate the mean of points of the team:

Applying the formula

$$\bar{x} = \frac{0+2+4+5+8+8+10+15+38}{9} = \frac{90}{9} = 10$$