The probability function is the random variable X that associates a probality Pi to every possible value of X (x1, x2, . . ., xn). We also need:

$$0 \leq p_i \leq 1 \ p_1 + p_2 + p_3 + \ldots + p_n = \sum_i p_i = 1$$

Let the random variable X be the result of throwing a dice. Supposing that the result of throwing a dice. Supposing that six aquiprobable faces, the probabilities of every result are:

$$p(X = 1) = P(X = 2) = \dots = P(X = 6)$$

 $\sum_i p_i = 6 \cdot \frac{1}{6} = 1$

bar chart:

It is possible to prove that we have

0.18 0.16 0.14

