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:

$$0 \le p_i \le 1$$

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

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 :

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

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

0,18 0,16

