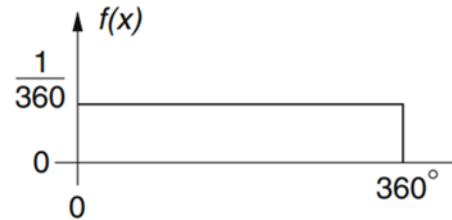


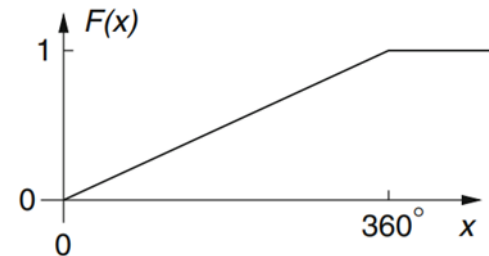
Ejemplo de función de distribución y densidad - Interpretación gráfica

Posición angular de la aguja de una rueda de la fortuna.

$$f(x) = \begin{cases} 1/360 & 0 \leq x < 360 \\ 0 & \text{resto} \end{cases}$$



$$F(x) = \begin{cases} 0 & x < 0 \\ \int_0^x \frac{1}{360} dt & 0 \leq x < 360 \\ 1 & x > 360 \end{cases}$$



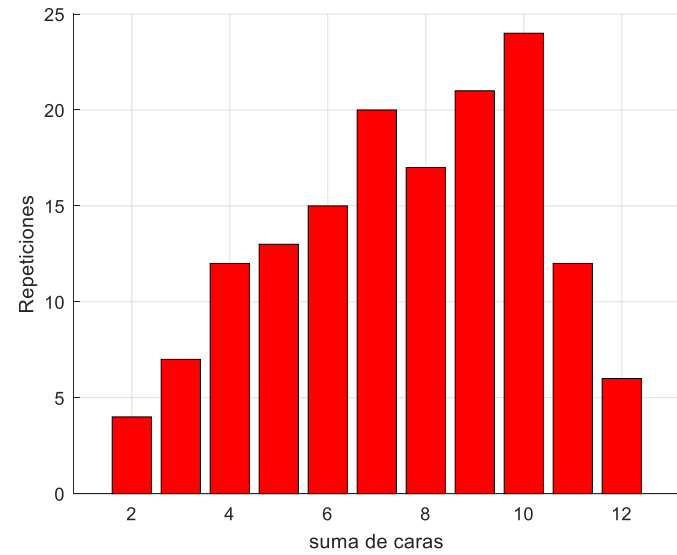
$$F(x) = \begin{cases} 0 & x < 0 \\ \frac{x}{360} & 0 \leq x < 360 \\ 1 & x > 360 \end{cases}$$

Experimento con dos dados

$G_{11}(20)$

2	□	4
3	□L	7
4	□□Γ	12
5	□□L	13
6	□□□	15
7	□□□□	20
8	□□□L	17
9	□□□□	21
10	□□□	24
11	□□□L	12
12	□□	6

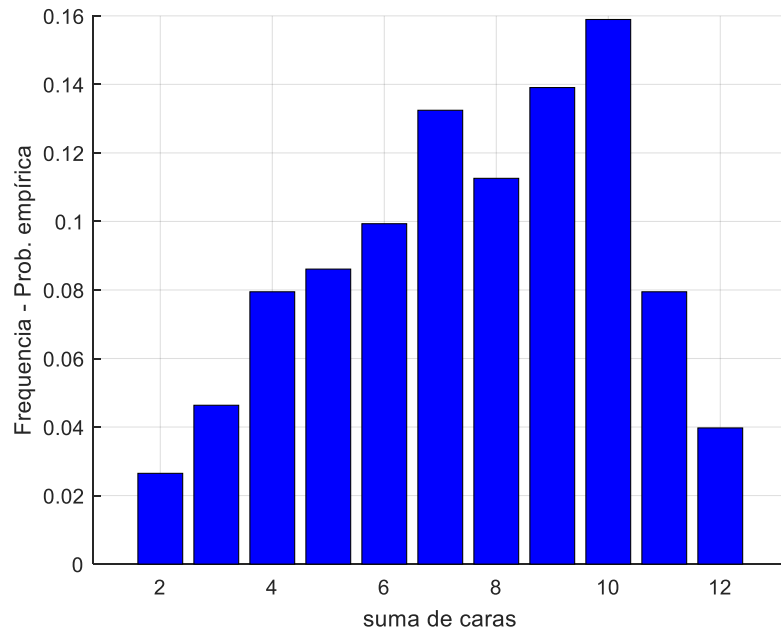
N = 151



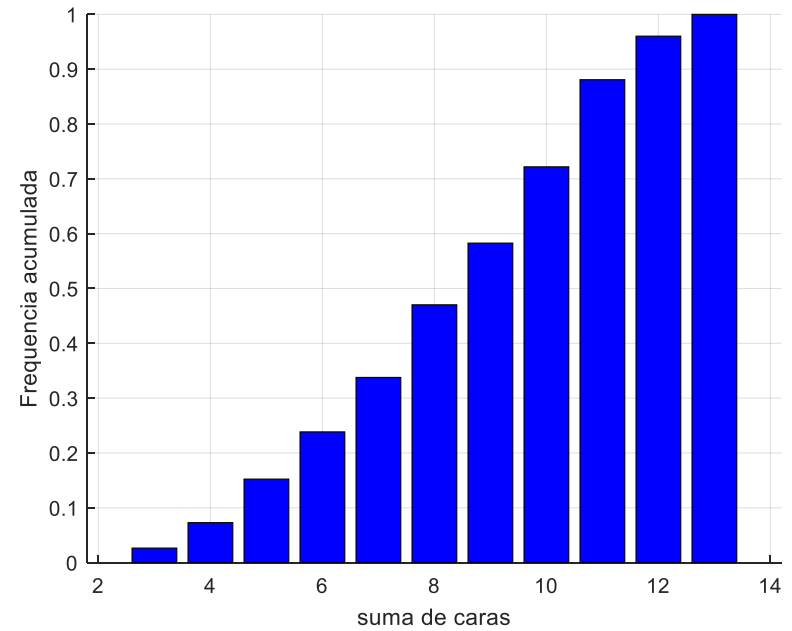
Error, es 14 y no 24.



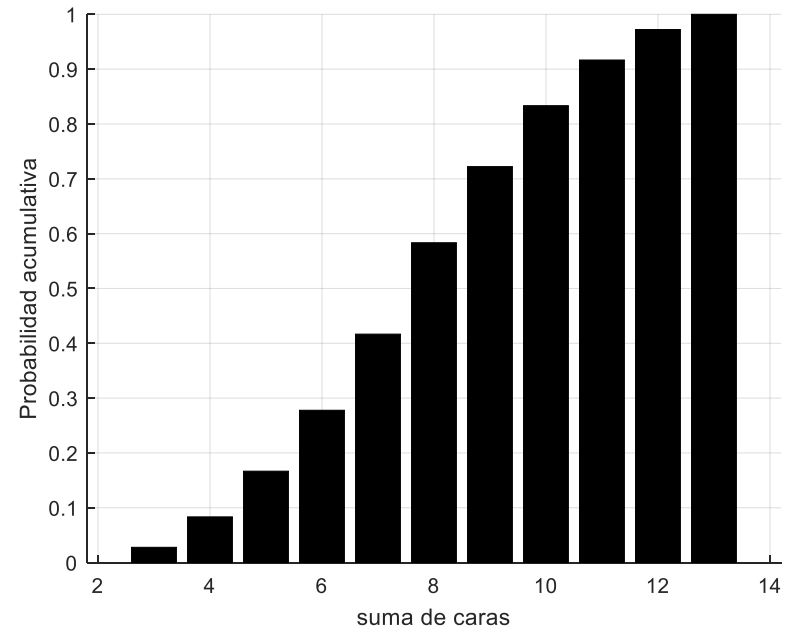
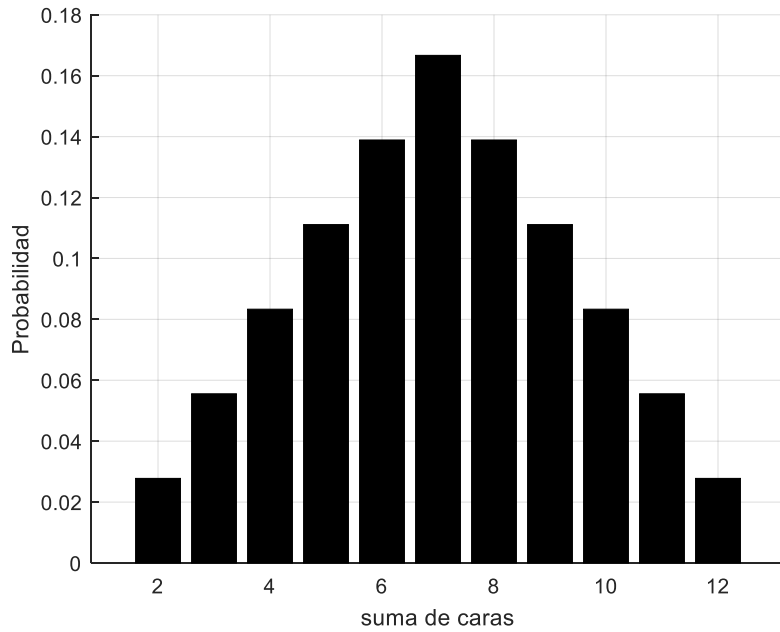
Frecuencias – Probabilidad empírica



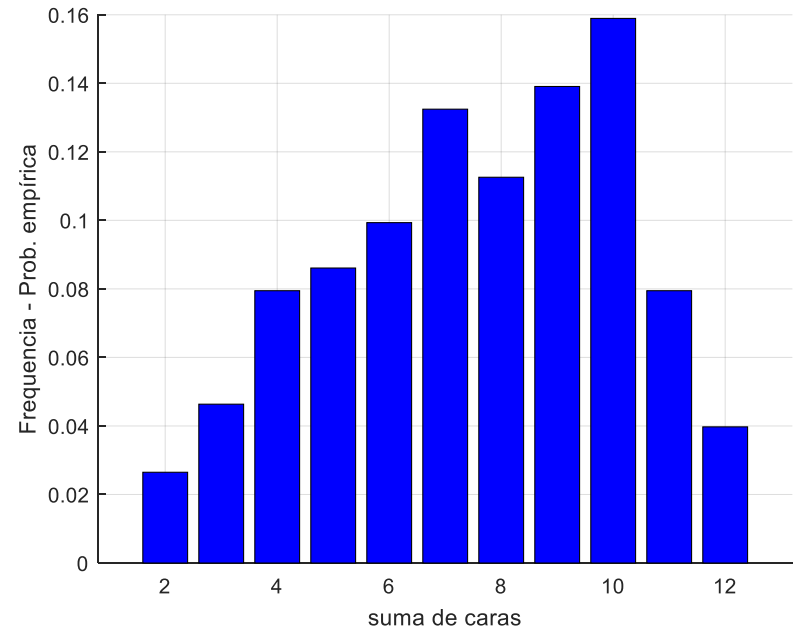
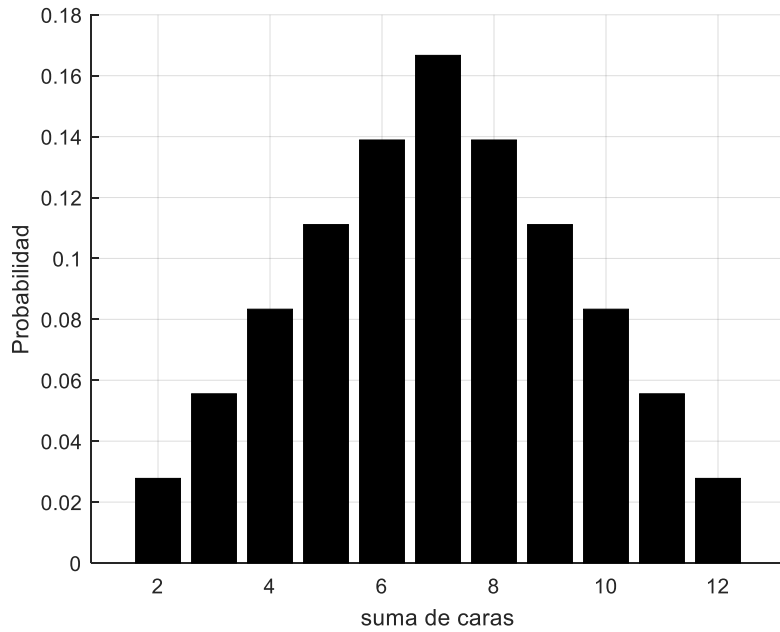
N = 151



Probabilidad teórica

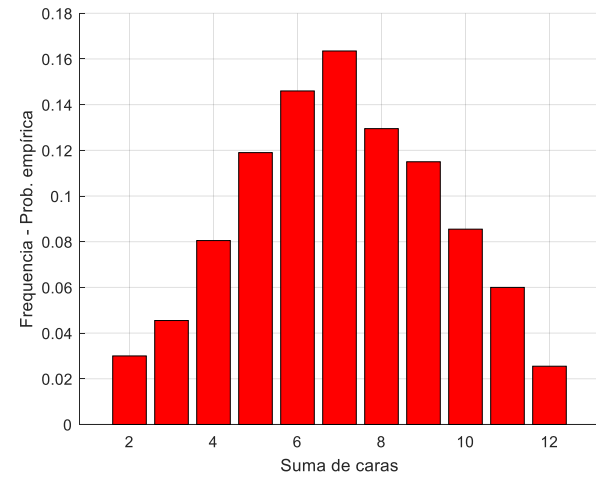
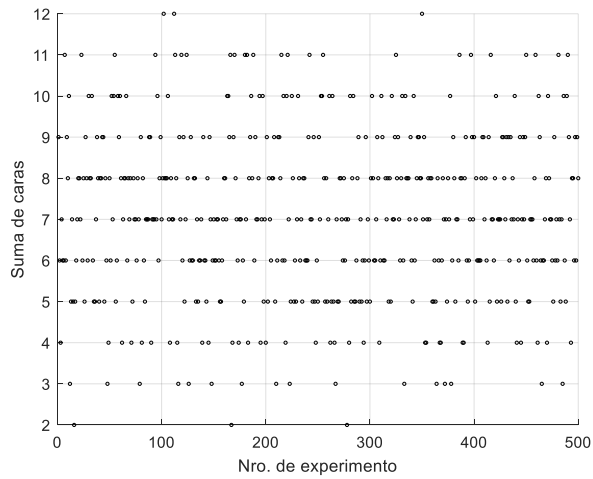
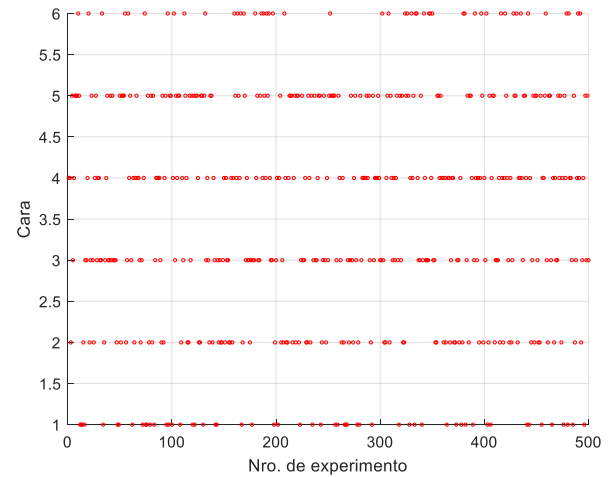
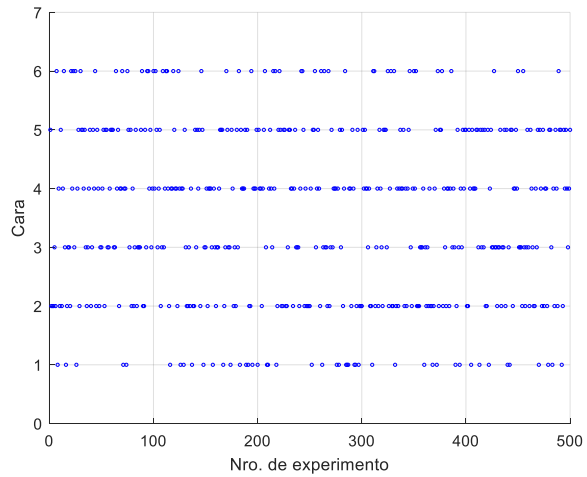


Probabilidad teórica vs empírica



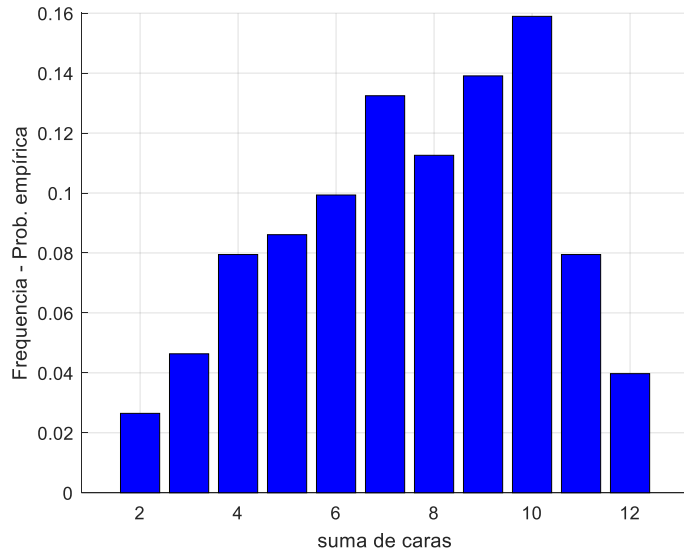
Simulación

N = 1000

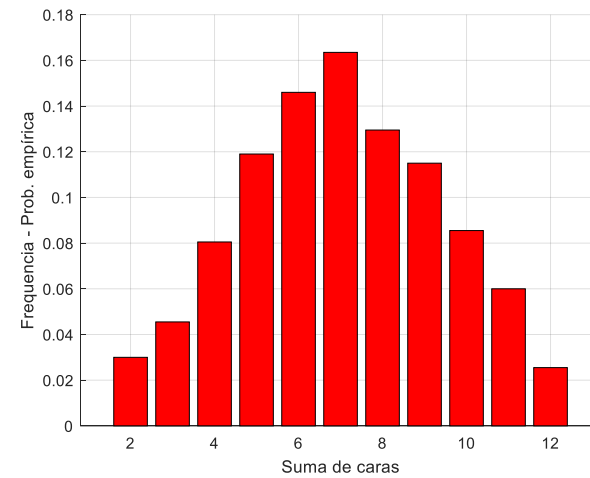


Probabilidad empírica vs. teórica

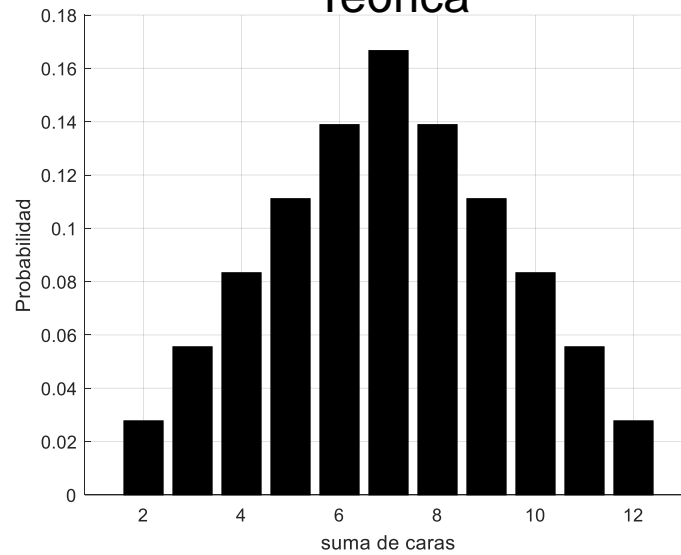
N = 151



Simulación N = 1000



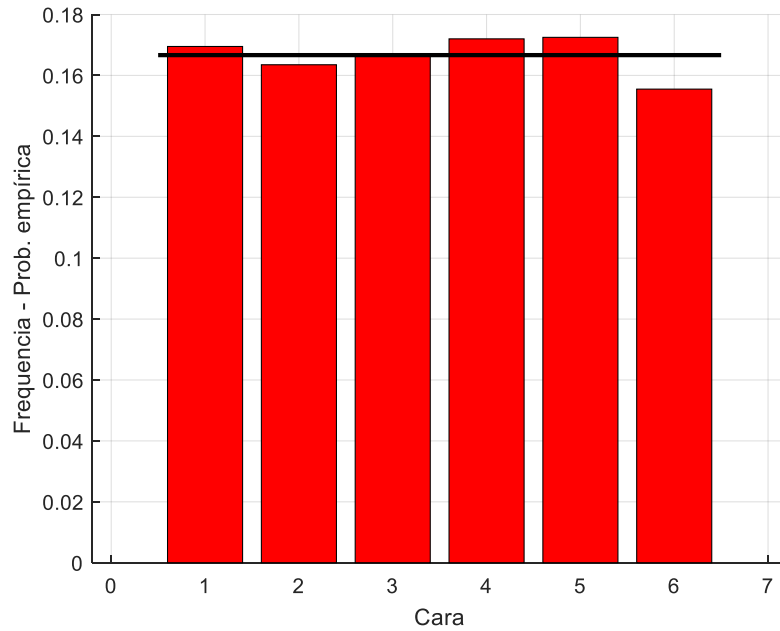
Teórica



Experimento de un dado

Simulación N = 1000

Dado 1



Dado 2

