

Punto 9

Generales de probabilidad

* Monedas justas

$$P = \frac{\text{Eventos Favorables}}{\text{Eventos Totales}}$$

$$E_{\text{Tot}} = (\# \text{ Posibles Eventos})^{\# \text{ Monedas}} = 2^4 = 16$$

$$E_{\text{Fav}} = C(n, r) = \frac{n!}{(r! (n-r)!)} = \frac{24}{(2! (2)!)} = \frac{24}{4} = 6$$

$$P = \frac{6}{16} = \frac{3}{8} = 0,375$$

* Monedas trancadas

C = Cara
S = Sello

- a) C S C S
- b) C C S S
- c) C S S C
- d) S C S C
- e) S S C C
- f) S C C S

6 posibilidades
éxito

$$P_3 = (1 - P_2) = \frac{1}{2}$$

$$P_4 = (1 - P_4) = \frac{1}{2}$$

$$\left\{ \begin{array}{l} P_1 (1 - P_2) P_3 P_4 \\ P_1 P_2 P_3 P_4 \\ P_1 (1 - P_2) P_3 P_4 \\ (1 - P_1) P_2 P_3 P_4 \\ (1 - P_1) (1 - P_2) \\ (1 - P_1) P_2 P_3 P_4 \end{array} \right.$$

f y d son iguales

a y c son iguales

$$P_3 \text{ y } P_4 = \frac{1}{4}$$

Expresión de probabilidad

$$\frac{P_1 + P_2}{4} - \frac{P_1 P_2}{2} + \frac{1}{4}$$

R/.