



$$1 \quad P[\text{bola roja}] = P[\text{urna B}] \cdot P[\text{roja/urna B}] = \frac{2}{3} \cdot \frac{7}{10} = \frac{7}{15}$$

$$2 \quad P[\text{suma 5}] = \left(\frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{2}\right) \cdot 4 + \left(\frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{2}\right) \cdot 2 = \frac{3}{9} = \frac{1}{3}$$

$$3 \quad P[2 \text{ rojas}] = P[1.^a \text{ roja}] \cdot P[2.^a \text{ roja}/1.^a \text{ roja}] = \frac{3}{4} \cdot \frac{2}{5} = \frac{6}{20} = \frac{3}{10} = 0,3$$

4 BIG/AFRIC significa “lleva bigote sabiendo que es africano”

AFRIC/BIG significa “es africano sabiendo que lleva bigote”

$$P[\text{BIG/AFRIC}] = \frac{6}{10} = 0,6$$

$$P[\text{AFRIC/BIG}] = \frac{6}{12} = 0,5$$