- * UNA SCATCLA CONTIENE M Schede Bionche e K Azzurre
- · UNA SCATCLA CONTIENE K Schede BiANCHE em AZZURRE

- · Si estrae una delle schede delle scatole:
- 1) B = { 6 Schools estration è Biance }

 A: { 6 Schools estration à Arzuera}

 P(A) = P(B)?
- 2) Saperdo cho è stata estratta una cicia bianca con che poboblità viene delle biglic i-esian. tol che i= {1,2,}

 $E:=\{ LA \text{ Schools } \tilde{e} \text{ estratas Dalla Search } i\text{-estra} \} \text{ tols the } i=\{1,2\}$ $P(E_1)=\frac{1}{2}$ $P(E_2)=\frac{1}{2}$

@ $P(B|E_I) = P(B)$ _> m Schoole Bianche

$$P(B) = \frac{181}{LR1} = \frac{m}{m+k}$$

R Schools Atzuzze

R = m+k

(b)
$$P(B|E_z) = P(B) \rightarrow K$$
 Schoole Bianche
$$P(B) = \frac{|B|}{|A|} = \frac{K}{m+K}$$

$$R = m+K$$

Leck Olio Acternative

$$P(B) = P(B|E_1) \cdot P(E_1) + P(B|E_2) \cdot P(E_2)$$

$$= \frac{m}{m+k} \cdot \frac{1}{2} + \frac{k}{m+k} \cdot \frac{1}{2}$$

$$= \frac{1}{2} \left(\frac{m}{m+k} + \frac{k}{m+k} \right)$$

$$= \frac{1}{2} \left(\frac{m}{m+k} + \frac{k}{m+k} \right)$$

$$= \frac{1}{2} \cdot 1$$

$$= \frac{1}{2} \cdot 1$$

(a)
$$P(A|E_1) = P(A)$$
 \rightarrow m Schoole Bianche $P(A) = \frac{|A|}{|R|} = \frac{|A|}{m+h}$ in Schoole Atzuzte as $E \cap F(A)$

(b)
$$P(A|E_L) = P(A)$$
 — K Schoole Bianche
$$P(A) = \frac{|A|}{|A|} = \frac{m}{m+k}$$

$$R = m+k$$

(i.2)
$$P(A) = P(A \mid E_1) \cdot P(E_1) + P(A \mid E_2) \cdot P(E_2)$$

$$= \frac{M}{M+K} \cdot \frac{1}{2} + \frac{K}{M+K} \cdot \frac{1}{2}$$

$$= \frac{1}{2} \left(\frac{M}{M+K} + \frac{K}{M+K} \right)$$

$$= \frac{1}{2} \left(\frac{M+K}{M+K} \right)$$

$$= \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$$

$$= \frac{1}{2} \cdot \frac{1}{2}$$

$$\frac{P(E_{3}|B)}{P(B)} = \frac{P(B|E_{1}) \cdot P(E_{1})}{\frac{1}{2}} = \frac{\frac{m}{m+k} \cdot \frac{1}{2}}{\frac{1}{2}} = \frac{\frac{x_{m}}{m+k}}{\frac{1}{2} \cdot \frac{2}{1}} = \frac{\frac{x_{m}}{x_{m}}}{\frac{1}{2} \cdot \frac{2}{1}} = \frac{\frac{x_{m}}{x_{m}}}{\frac{1}{2} \cdot \frac{2}{1}} = \frac{\frac{m}{m+k}}{\frac{1}{2} \cdot \frac{2}{1}} = \frac{\frac{x_{m}}{x_{m}}}{\frac{1}{2} \cdot \frac{2}{1}} = \frac{x_{m}}{x_{m}}$$