$$\begin{array}{c|c} 3 & 4 \\ B & N \end{array}$$

$P(\text{almeno } 1 \text{ nera}) = ?$

$P(\text{"1 nera"} \cup \text{"2 nere"}) =$

$= P(1 \text{ nera}) + P(2 \text{ nere})$

$$= \frac{\binom{3}{1}\binom{4}{1}}{\binom{7}{2}} + \frac{\binom{3}{0}\binom{4}{2}}{\binom{7}{2}} = \frac{3 \cdot 4}{21} + \frac{1 \cdot 6}{21} = \frac{12+6}{21} = \frac{18}{21} = \frac{6}{7}$$

$1 - \frac{1}{7} = \frac{6}{7}$

$P(\text{almeno } 1 \text{ nera}) = 1 - P(\text{nessuna nera}) = 1 - P(2 \text{ bianche}) = 1 - \frac{\binom{3}{2}\binom{4}{0}}{\binom{7}{2}} = 1 - \frac{3 \cdot 1}{21} = \frac{1}{7}$