## $\mathbf{P}(\mathbf{A} \mid \mathbf{B})$.

## $\mathbf{P}(\mathbf{A} \mid \mathrm{B})$,

$P(A$ and $B)=P(A) P(B \mid A)=P(B) P(A \mid B)$

> If $\quad$ independent events, $P(A$ and $B)=P(A) P(B)$

