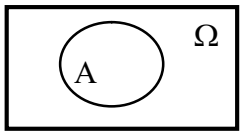
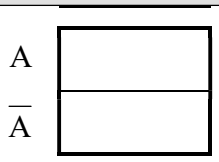
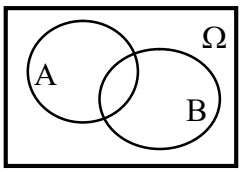
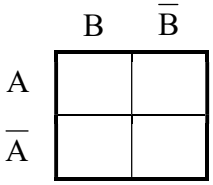
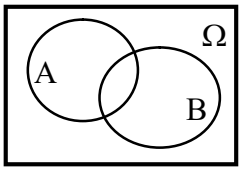
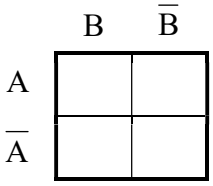
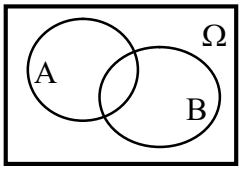
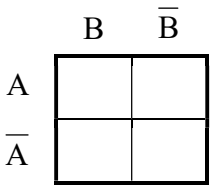
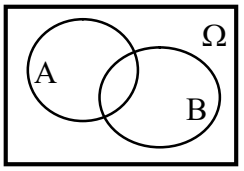
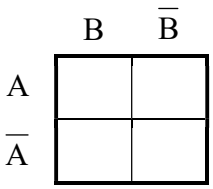
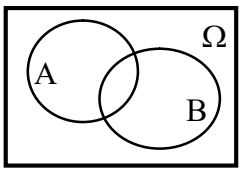
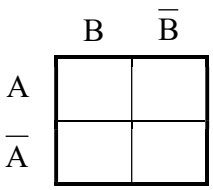
Verknüpfung von Ereignissen

$\cap$	**Schnittmenge**	UND	(und gleichzeitig)
$\cup$	**Vereinigung**	ODER	(und/oder, mindestens eins davon)
$\setminus$	**Differenz**	NICHT	(Ausschluss, ohne)

Ein Ereignis, das nur aus einem Ergebnis besteht, heißt **Elementarereignis** (Beim Würfel ist "4" ein Elementarereignis, "mindestens 4" aber nicht).
Ist $A \cap B = \{\ \}$, so heißen A und B **unvereinbar** oder **disjunkt**.

Sprechweise	Mathematischer Term	Venn-Diagramm	Vierfeldertafel
Gegenereignis zu A (Nicht A)	$\overline{A}$		
Ereignis A *und* B (Beide Ereignisse)	$A \cap B$		
Ereignis A *oder* B (Mindestens eines der beiden Ereignisse)	$A \cup B$		
A *und nicht* B (A ohne B)	$A \cap \overline{B} = A \setminus B$		
Weder A *noch* B (Keines der beiden)	$\overline{A} \cap \overline{B} = \overline{A \cup B}$		
Nicht beide Ereignisse (höchstens eines der beiden Ereignisse)	$\overline{A} \cup \overline{B} = \overline{A \cap B}$		
Entweder A *oder* B (genau eines der Ereignisse)	$(A \cup B) \setminus (A \cap B)$ = $(\overline{A} \cap B) \cup (A \cap \overline{B})$