

**TABLE 14.9** Interaction

**Interaction of Factor A at  $B_2$ .**

If significant, we state that among students with high attendance, those who did study scored higher.

**Interaction of Factor A at  $B_1$ .**

If significant, we state that among students with low attendance, those who did study scored higher.

		Factor A (Studied for Quiz)		
		1 (No)	2 (Yes)	
Factor B (Attendance)	1 (Low)	$M_{A_1B_1} = 2.0$	$M_{A_2B_1} = 3.0$	$M_{B_1} = 2.5$
	2 (High)	$M_{A_1B_2} = 4.0$	$M_{A_2B_2} = 5.0$	$M_{B_2} = 4.5$
		$M_{A_1} = 3.0$	$M_{A_2} = 4.0$	

**Interaction of Factor B at  $A_1$ .**

If significant, we state that among students who did not study, those with high attendance scored higher.

**Interaction of Factor B at  $A_2$ .**

If significant, we state that among students who did study, those with high attendance scored higher.

A significant interaction indicates that group means at each level of one factor significantly change across the levels of a second factor. For the interaction in a two-way ANOVA, we analyze cell or group means inside the table.