

Q1. A big bus company is interested in knowing if the number of accidents on four routes is independent of the driver shift. Test this hypothesis based on the following sample counts. Let $\alpha = 0.05$. State the p-value and interpret it.

一間大型巴士公司，有興趣知道其下四條路線的交通事故數量與車長輪班時段是否有關係。請以下列樣本數據來測試這個假設。設 $\alpha = 0.05$ 。請說明 p 值，並解釋它。

Shift 輪班時段	Route 路線			
	A	B	C	D
7 – 3	6	4	3	10
3 – 11	6	9	14	15
11 – 7	8	7	9	13