- **Question:** Does brand of tire affect fuel economy of long haul trucks?
- **Data Collection:** Four different brands of tires are investigated to see if they affect the fuel economy of long haul trucks. It is believed that there will be variability among trucks. Since a single test run will cover several hundred miles, only one run can be made by a truck each day. Road conditions may vary from day to day causing variability in fuel economy. A Latin Square Design with trucks as one blocking variable and days as a second blocking variable is run.
- **Data:** The four brands of tire are B1, B2, B3, B4. The response is fuel economy in miles per gallon.

		Day			
		1	2	3	4
	1	B2=6.63	B1=6.26	B4=7.31	B3=6.57
Truck	2	B4=7.06	B2=6.59	B3=6.64	B1=6.71
	3	B1=6.31	B3=6.73	B2=7.00	B4=7.38
	4	B3=6.55	B4=7.13	B1=6.54	B2=7.11