**QSO 530: Single Factor ANOVA**

**Problem 1**

Weekly cash sales records have been collected for four drive-in restaurants in Topeka, Kansas, for a six-week period. The sales figures are shown in the table below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Drive-In | | | | |
| Week | 1 | 2 | 3 | 4 |
| 1 | $1,430 | $960 | $1,780 | $2,300 |
| 2 | 2,20 | 1,400 | 2,890 | 2,680 |
| 3 | 1,140 | 1,200 | 1,500 | 2,00 |
| 4 | 880 | 1,300 | 1,470 | 1,900 |
| 5 | 1,670 | 1,300 | 2,400 | 2,540 |
| 6 | 990 | 550 | 1,600 | 1,900 |

If the assumptions of the one-way ANOVA design are satisfied in this case, what should be concluded about the average sales at the four drive-in restaurants in Topeka? Use the significance level of 0.05.