

VII. Samples of 10 taken in 1985 and 1995 revealed the average time people spend grocery shopping decreased from 18 minutes to 14 minutes. Respective standard deviations were 5 minutes and 4 minutes. Test at the .10 level of significance whether there has been a change in shopping time variability.

| Data set for those using statistics software | |
|--|------|
| Shopping Time | |
| 1985 | 1995 |
| 19 | 10 |
| 17 | 17 |
| 18 | 20 |
| 16 | 9 |
| 18 | 8 |
| 14 | 16 |
| 23 | 13 |
| 9 | 18 |
| 28 | 15 |
| 18 | 14 |

VIII. Test at the .05 level of significance whether workplace accidents happen equally throughout the workweek.

| Analysis of Workplace Accidents | | | | | |
|---------------------------------|-----------|--|--|--|--|
| Day | Accidents | | | | |
| Monday | 9 | | | | |
| Tuesday | 5 | | | | |
| Wednesday | 6 | | | | |
| Thursday | 5 | | | | |
| Friday | 10 | | | | |
| Totals | 35 | | | | |