Citrus Clean is a new all-purpose cleaner being test-marketed by placing displays in three different locations within various supermarkets. The number of 12-ounce bottles sold from each location within the super market is report below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Near Bread | 18 | 14 | 19 | 17 |
| Near Beer | 12 | 18 | 10 | 16 |
| Near Other Cleaners | 26 | 28 | 30 | 32 |

At the .05 significance level, is there a difference in the mean number of bottles sold at the three locations?

1. State the null and alternative hypothesis.
2. Develop and ANOVA table.
3. What is your decision regarding the null hypothesis?
4. Explain how you made your decision regarding your answer to part c