One – Way ANOVA

A fast food chain wants to test and market three of its new menu items. To analyze are equally popular, consider:

* 18 random restaurants for the study
* 6 of the restaurants to test market the first menu item, another 6 for the second one, and the remaining 6 for the last one.

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| Item 1 | Item 2 | Item 3 |
| 22 | 52 | 16 |
| 42 | 33 | 24 |
| 44 | 8 | 19 |
| 52 | 47 | 18 |
| 45 | 43 | 34 |
| 37 | 32 | 39 |

The table shows the sales figures of the menu items in the 18 restaurants. At 0.05 level of significance test whether the mean sales volumes for these menu items are equal.