- 1. Numerator: Measure of variability across treatment groups; that is how different are the group means from each other?
 - Denominator: Measure of variability inherit to the process, that is, we calculate this by using the variances within each group.
- 2. If the MSE is large, meaning the denominator of the F statistic also large. It indicates a high level of variability within the groups, which can make it difficult to detect differences between the groups means. Usually means there are no differences between the group means.
- 3. If the treatment has no impact, then each \overline{y} will be equal to each other, and likewise to \overline{y} . Thus $(\overline{y_i} \overline{y})$ will be 0, and thus MS_T will be 0.
 - Conversely, if the treatment has an impact, the \overline{y}_{i} values will be different from each other.