

Module 3B Questions:

1. In the 12-mouse dataset, among Chow-fed mice, do strains differ in mean glucose levels?
2. You are studying the expression levels of a gene involved in immune response across three different strains of mice (Strain A, Strain B, Strain C). The goal is to determine whether there are significant differences in **mean gene expression across these three strains** and, if there is, identify which strains are significantly different.

| Strain | Number | Mean | Variance |
|--------|--------|------|----------|
| A | 10 | 12.5 | 2.1 |
| B | 10 | 15.2 | 2.3 |
| C | 10 | 18.7 | 2.0 |