Glossary

1. **Linear Programming**
   Linear programming is a mathematical method for determining a way to achieve the best outcome (such as maximum profit or lowest cost) in a given mathematical model for some list of requirements represented as linear relationships.

2. **Mathematical model**
   A mathematical model is a description of a system using mathematical concepts and language.

3. **Formation**
   The action of forming; a structure or arrangement; it's the process of being formed.

4. **Optimum Allocation**
   A procedure used in stratified sampling to allocate numbers of sample units to different strata to either maximize precision at a fixed cost or minimize cost for a selected level of precision.

5. **Criterion**
   A Principle or standard by which something may be judged or decided.

6. **Optimality Criterion**
   In statistics, an optimality criterion provides a measure of the fit of the data to a given hypothesis.

7. **Linear**
   It refers to arranged in or extending along a straight line.

8. **Programming**
   It's a planned series of events; a set of related measures or activities with a long term aim.

9. **Objective Function**
   The goal of the optimization process is to find the parameter values that result in a maximum or minimum of a function called the objective function.

10. **Constraint**
    It refers to a limitation or restriction.

11. **Divisibility**
    A divisibility rule is a shorthand way of discovering whether a given number is divisible by a fixed divisor without performing the division, usually by examining its digits.

12. **Additive**
    It's a substance added in small amounts to something else to improve, strengthen, or otherwise alter it.

13. **Certainty**
    It's a quality or state of being certain; a true fact or an event that is definitely going to take place.

14. **Optimization**

To make the best or most effective use of it; making best use of resources in order to increase the productivity.

15. **Assumption**
    A thing that is assumed as true; the action of assuming responsibility or control.