

Writing About Operations Research – The Model Section

- In your project report, you need to describe the operations research or statistical model you are using to solve your problem.
- The way you need to write about this will depend on the exact nature of your project.
- Here are some some general guidelines.
- **For an optimization model:**
 - State all components of your model mathematically:
 - ◊ Sets
 - ◊ Parameters
 - ◊ Decision variables
 - ◊ Constraints
 - ◊ Objective function
 - Describe each of the components in words.
 - Discuss any simplifying assumptions you made.
- **For a statistical model:**
 - State the type of statistical model you are using.
 - Explain why this type of model is appropriate for your problem.
 - State the model mathematically.
 - Describe the response and explanatory variables in words.
 - Discuss any simplifying assumptions you made.
- **For a simulation model:**
 - Provide a flow chart of how your system operates, according to your simulation model.
 - In words, walk your reader through your flow chart.
 - Discuss any simplifying assumptions you made.