Module 02 – Transportation Modeling

Exploratory Data Analysis

A table with text on it

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

Model Formulation

A screenshot of a computer

AI-generated content may be incorrect.

* The number of units received had to be less than or equal to the units demanded
* The number of units shipped had to equal the capacity

Model Optimized for Profit

*Implement your formulation into Excel and be sure to make it neat. This section should include:*

* *A screenshot of your optimized final model (formatted nicely, of course)*
* *A text explanation of what your model is recommending*

A close-up of a document

AI-generated content may be incorrect.

My model is recommending that the Fish and Murr Candy Shop should transport a certain amount of units of candy from a certain source location to a certain destination. The units of candy it is transporting from one location to another shown in the pink is the optimal solution by keeping our total costs as low as possible.

Model with Stipulation

*Please copy the tab of your original model before continuing with the next part to avoid messing up your original solution. What happens if you add an additional constraint to the model such that all demand MUST be met. Is the solution still feasible? If not, please explain why.*

The solution is not feasible because the constraints are too restrictive. Not all conditions would be met.