KUNAL SHARMA

ASSIGNMENT 1: LP FORMULATION PROBLEM

1. Decision Variables:

The decision variables are Y1 and Y2. Y1 represents Collegiate and Y2 represents Mini.

2. Objective Function:

The objective is to maximize the profits of the Back Savers company.

3. Constraints:

As, Back Savers have contract and receives 5000 square foot of nylon shipment each week.

As, the sales forecasts indicate that at most 1000 Collegiate and 1200 Minis can be sold per week.

Constraints of Labor in minutes. There are 35 laborers available.

Collegiate and Mini must be greater than 0.

4. Full Mathematical Formulation:

Maximize Z=32Y1+24Y2