Cameron Croghan

2a. The decision variable is the choice of how many of each kind of backpack to produce.

b. The objective function is maximizing the amount of money earned.

c. The constraints are: the amount of nylon supplied, the forecast of potential sales

d. Profit = ($32)(# collegiates) + ($24)(# minis)

# Collegiates=X # Minis=Y Nylon=N

3X+2Y < 5000N

X<1000 Y<1200