1. Clearly define the decision variables

Number of Collegiate: X1

Number of Mini: X2

b. What is the objective function?

P(profit) = 32\*X1 + 24\*X2

c. What are the constraints?

3\*X1 +2\*X2 <= 5000

0.75\*X1 + (2/3\*X2) <= 35\*40

0<=X1<=1000

0<=X2<=1200

d. Write down the full mathematical formulation for this LP problem

P = 32\*X1 + 24\*X2

3\*X1 +2\*X2 <= 5000

0.75\*X1 + (2/3\*X2) <= 1400

0<=X1<=1000

0<=X2<=1200