- a) Decision variables are the Collegiate and the Mini and let us call them X and Y respectively.
- b) Objective function = 32x+24y
- c) Constraints are:
 - 3X+2Y <= 5000
 - 45X+40Y <= 84000

AND

- X, Y >= 0
- X<=1000
- Y<=1200
- d) Max:(Z) = 32x+24y

3X+2Y <= 5000

45X+40Y <= 84000

X, Y >= 0

X<=1000

Y<=1200