

Decision Variables

X1<- Collegiate

X2<- Mini

Constraints

$X1 \geq 1000$

$X2 \geq 1200$

Objective Function

Max Profit (z) = 32 X1 + 24 X2

Mathematical Formulation

$3X1+2X2 \leq 5000$

$45X1+40X2 \leq 84,000$

$X1, X2 \geq 0$