

Assignment number:1
Quantitative Management modeling

Colligate = c

Mini= m

c : number of unites produced from product (Colligate)

m : number of unites produced from product (Mini)

Objective function:

Maximize profit **$Z = 32c + 24m$**

Constraints:

$$3c + 2m \leq 5000$$

$$45c + 40m \leq 84000 \text{ minutes}$$

$$c \leq 1000$$

$$m \leq 1200$$

$$c \geq 0$$

$$m \geq 0$$