1.

X is the number of collegiate produced per week.

Y is the number of mini produced per week.

Z represents the profit(dollars) per week

Maximize : z=32x+24y

Subject to restrictions

3000x+2400y<=5000

45x+40y<=1400

And

x>=0, y>=0

constraints

3000x+2400y<=5000

45x+40y<=1400

x>=0, y>=0.

objective function profit=32x+24y

2.

X is the large size of product's unit at plant.

Y is the medium size of product's unit at plant.

Z is the small size of product's unit at plant.

S represents the profit of the weigelt corporation

Maximize : S=420(x+y+z)+360(x+y+z)+300(x+y+z)

subject to the restrictions

x+y+z<=750

x+y+z<=900

x+y+z<=450

20x+15y+12z<=13000

20x+15y+12z<=12000

20x+15y+12z<=5000

x<=900

y<=1200

z<=750

and

x>=0,y>=0,z>=0.