Q2

max 3.5 s + 2.25 p + 2.66 b1 + 3.04 b2

st

0.125 s <= 1000

0.8 p + 0.05 b1 + 0.03 b2 <= 2050

0.05 b1 + 0.07 b2 <= 1250

s >= 6000

s <= 7000

p >= 10000

p <= 14000

b1 >= 14000

b1 <= 16000

b2 >= 6000

b2 <= 8500

s >= 0

p >= 0

b1 >= 0

b2 >= 0

Nofiseable

Q3

a)

MIN 1w + 5x + 10y + 25z

ST

1w + 5x + 10y + 25z = 202

w >= 0

x >= 0

y >= 0

z >= 0

END

INT w !Make w 0/1

INT x !Make x 0/1

INT y !Make y 0/1

INT z !Make z 0/1

b)