×2 - Large Reprigerator.

Time to produce 1 Large compressers = P

Time to produce 1 Large compressers = P

1200

Time to produce 1 small compressor = P

3000

if we make X1 Large, X2 small compressors,
time needed = PXI + PX2
1200 3000

 $\frac{P \times 1}{1200} + \frac{P \times 2}{3000} \le P$ $\frac{X1 + X2}{1200} \le 1 \implies 521 + 22 \ge 6000$

similarly, constraint on body:

PX1 + PX1 <P => 521+372 £7500

x 2 > 2000 (Monthly demand constraints)

LPP .

 $M_{A} \times Z = 1500 \times 1 + 1000 \times 2 - 1500000$ 5.T 5.1 + 2.000 5.1 + 3.00 = 7500 $21 \ge 2000$ $21 \ge 1000$ $31, \times 2 \ge 6$