

Page 30 # 8

	Ore 1	Ore 2	Requires
Copper	.2	.3	≥ 8 tons
Zinc	.2	.25	≥ 6 tons
Magn	.15	.10	≥ 5 tons
cost	\$90	\$120	min

Decision Var.

O_1 : # of tons of Ore 1 to buy.
 O_2 : # of tons of Ore 2 to buy.

Min: \$90 O_1 + \$120 O_2

s.t.

Copper demand .2 O_1 + .3 $O_2 \geq 8$ tons
 Zinc Dem. .2 O_1 + .25 $O_2 \geq 6$ tons
 Mag Dem. .15 O_1 + .10 $O_2 \geq 5$ tons
 Non Neg. $O_1, O_2 \geq 0$