

```
1 int nProds = 5;
2
3 range Prods = 1..nProds;
4
5 /* Declare x1, x2, x3, x4, x5; */
6 dvar float+ x[Prods];
7
8 float cost[Prods]=[550, 600, 350, 400, 200];
9 float grinding[Prods]=[ 12, 20, 0, 25, 15];
10 float drilling[Prods]=[ 10, 8, 16, 0, 0];
11 float workers[Prods]=[ 20, 20, 20, 20, 20];
12
13 float grindingLimit = 288;
14 float drillingLimit = 192;
15 float workersLimit = 384;
16
17 maximize
18     sum(p in Prods) cost[p] * x[p];
19     /* Alternative: 550 * x[1] + 600 * x[2] + 350 * x[3] + 400 * x[4] + 200 * x[5]; */
20
21 subject to {
22     Grinding: sum(p in Prods) grinding[p] * x[p] <= grindingLimit;
23               /* 12 x[1] + 20 x[2] + 25 x[4] + 15 x[5] <= 288; */
24
25     Drilling: sum(p in Prods) drilling[p] * x[p] <= drillingLimit;
26               /* 10 x[1] + 8 x[2] + 16 x[3] <= 192; */
27
28     Workers:  sum(p in Prods) workers[p] * x[p] <= workersLimit;
29               /* 20 x[1] + 20 x[2] + 20 x[3] + 20 x[4] + 20 x[5] <= 384; */
30 }
31
```