**Example - Fence (cutting stock problem)**

Firm produces garden [laths fence](http://slovnik.seznam.cz/en-cz/word/?id=mUuWWy_0KVs=&q=picket%20fence). There are only standard laths 200 cm long at disposal at storehouse. To produce a fence, the firm needs exactly 1200 laths 80 cm long, 3100 laths 50 cm long and 500 laths 30 cm long.

You have to design a cutting plan to minimize total amount of laths 200 cm long that were cut.

1. Formulate a mathematical model of the problem
2. Solve the problem in optimization software
3. Interpret the solution