## Paper company

Solve the following optimization problem

A paper company should cut its raw papers (black ones) into the color ones. The size of each paper is known. Determine the optimal cutting approach to supply the required quantities.

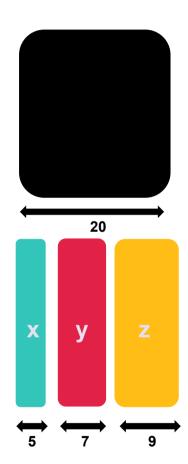
$$\min_{x,y,z,U} \sum_{i} iU_{i}$$

$$5x_{i} + 7y_{i} + 9z_{i} \le 20U_{i}$$

$$\sum_{i} x_{i} = N_{x}$$

$$\sum_{i} y_{i} = N_{y}$$

$$\sum_{i} z_{i} = N_{z}$$



**Ex30**