

# Opti.pdf



Eng\_dades



Ajust de Models d'Optimització



3º Grado en Ingeniería de Datos



Escuela de Ingeniería  
Universidad Autónoma de Barcelona

antes





**Descarga sin publi  
con 1 coin**



Después



**WUOLAH**



Importante

pierdo  
espacio



Necesito  
concentración

ali ali ooh  
esto con 1 coin  
me lo quito yo...

WUOLAH

Puedo eliminar la publi de este  
documento con 1 coin ¿Cómo consigo coins?

Plan Turbo: barato

Planes pro: más coins

Degree in data engineering

Adjustment of optimization models

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- The village Butcher shop traditionally makes its meat loaf from a combination of lean ground beef and ground pork. The ground beef contains 80 percent meat and 20 percent fat, and cost the shop 80€. the ground of pork contains 86 percent meat and 32 percent fat, and cost the shop 60€. How much in each kind of meat should the shop use in each pound of meat loaf if it wants to minimize its cost and keep the fat content of the meat loaf to no more than 25 percent?
- A furniture Market has 6 unit of wood and 28h of free time, in which he will make decorative screens. Two models have sold well in the past, so he will restrict himself to those two. He stimates that model I requires 2 units of wood and 7h of time, while moldel II requieres 1 unit of wood and 8h of time. The prices of the models are 120€. and 80€. respectively. How many screens of each model should the furniture maker assemble if he wishes to maximize his sales revenue?
- Universal mines In. operates three mines in West Virginia. The ore from each mine is separated into two grades before it is shipped; the daily production capacities of the mines, as well as their daily operating costs, are as follows:

	High-Grade ore	Low-grade Ore	Operating Cost
Mine I	4	4	20
Mine II	6	4	22
Mine III	1	6	18

Universal is committed itself to deliver 54 tons of high-grade ore and 65 tons of low-grade ore by the end of week. It also has labor contracts that guarante employeses in ecah mine a full day's pay for each day or fraction of day the mine is open. Determine the number os days each mine should operated during the upcoming week if Universal mines is to fulfill its commitment at minimum total cost.

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