Ingredients					
	Compo	onent A	Corr	iponent B	
Octane		82		100	
Cost	\$	41.00	\$	48.00	
Quantity		40,000		27,000	

Products					
	Regular		Premium		
Min Octane		87		95	
Selling Price	\$	50.00	\$	60.00	
Orders		28,000		13,500	

Variable		Value	Compone	ents used
X1	Component A used in Regular	34757	34757 40000	
X2	Component A used in Premium	5243	A	40000
Х3	Component B used in Regular	13368	D	27000
X4	Component B used in Premium	13632	D	27000

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Revenue -	- Darreis	л гер х р	псе от тер	+ Darreis O	i brennum	X DITLE OF L	леннинг
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Revenue= \$ 3,538,749.96

Cost = barrels of component A x cost of component A + barrels of component B X cost of component B Cost = $\begin{bmatrix} $ 2,936,000.00 \end{bmatrix}$

Objective: Profit = Revenue - Cost

\$ 602,749.96

Constraints:

Standing Orders

barrels of regular \geq orders for regular barrels of premium \geq orders for premium

Min Octane

octane of regular \geq min octane for regular octane of premium \geq min octane for premium

Supplies

barrels of component A used ≤ barrels of component A on hand barrels of component B used ≤ barrels of component B on hand

Non-negative

barrels of component A used ≥ 0 barrels of component B used ≥ 0

Product	Octane		
reg	48125	87	
prem	18875	95	