

Simplex Method

Reddy Mikks produces both interior and exterior paints from two raw materials, M1 and M2. The following table provides the basic data of the problem:

Tons of raw material per ton			
	exterior paint	Interior paint	Max. daily availability (tons)
Raw material M1	6	4	24
Raw material M2	1	2	6
Profit per ton (\$1000)	5	4	

A market survey indicates that the daily demand for interior paint cannot exceed that for exterior paint by more than 1 ton. Also the maximum daily demand for interior paint is 2 tons. Reddy Mikks wants to determine the optimum product mix of interior and exterior paints that maximizes the total daily profit.

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