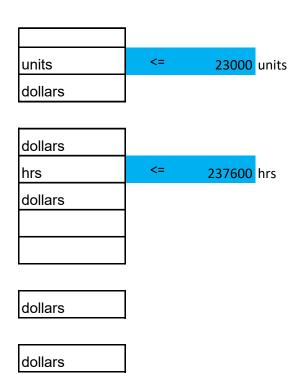
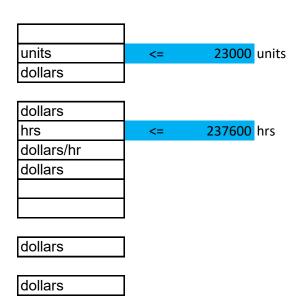
	Production optimization example				
Cost	LOU Model 2.0A	LOU Model 2.0B			
Materials cost per unit	\$1,000	\$900	dollars		
Direct labor man hour per unit	9.7	11.0	hrs		
Direct labor cost per man hour	\$60	\$60	dollars		
Direct labor cost per unit	\$582	\$660	dollars		
Labor overhead cost per unit	\$204	\$231	dollars		
Management and sales cost fixed	\$150,000	\$150,000	dollars		
Sale price per unit	\$4,300	\$4,500	dollars		
Sales forecast	LOU Model 2.0A	LOU Model 2.0B	1		
maximum	15000	14000	units		
min	10000	9000	units		
Resource constrains	•				
Production capacity	23000		units		
Labor hour limit	237600		hrs		
	LOU Model 2.0A	LOU Model 2.0B	Total		
Decision: Units to make	11,847	11,153	23000		
Revenue	\$50,942,100	\$50,188,500	\$101,130,600		
Cost					
Materials cost	\$11,847,000	\$10,037,700	\$21,884,700		
Direct labor man hour	114916	122683	237599		
Direct labor cost	\$6,894,954	\$7,360,980	\$14,255,934		
Labor overhead cost	\$2,413,234	\$2,576,343	\$4,989,577		
Management and sales cost fixed	\$150,000	\$150,000	\$300,000		
Total cost	\$21,305,188	\$20,125,023	\$41,430,211		
Total profit	\$29,636,912	\$30,063,477	\$59,700,389		



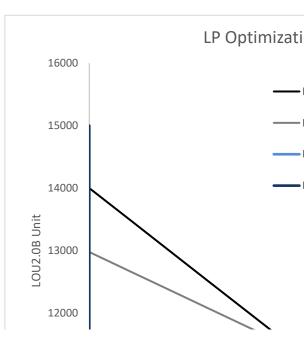
	Production optimization example				
Cost	LOU Model 2.0A	LOU Model 2.0B			
Materials cost per unit	\$1,000	\$900	dollars		
Direct labor man hour per unit	9.7	11.0	hrs		
Direct labor cost per man hour	\$60	\$60	dollars		
Direct labor cost per unit	\$582	\$660	dollars		
Labor overhead cost per unit	\$204	\$231	dollars		
Management and sales cost fixed	\$150,000	\$150,000	dollars		
Sale price per unit	\$4,300	\$4,500	dollars		
Sales forecast	LOU Model 2.0A	LOU Model 2.0B			
maximum	15000	14000	units		
min	10000	9000	units		
Resource constrains	•				
Production capacity	23000		units		
Labor hour limit	237600		hrs		
	LOU Model 2.0A	LOU Model 2.0B	Total		
Decision: Units to make	11,847	11,153	23000		
Revenue	\$50,942,100	\$50,188,500	\$101,130,600		
Cost					
Materials cost	\$11,847,000	\$10,037,700	\$21,884,700		
Direct labor man hour	114916	122683	237599		
Direct labor cost per man hour	60	60			
Direct labor cost	\$6,894,954	\$7,360,980	\$14,255,934		
Labor overhead cost	\$2,413,234	\$2,576,343	\$4,989,577		
Management and sales cost fixed	\$150,000	\$150,000	\$300,000		
Total cost	\$21,305,188	\$20,125,023	\$41,430,211		
Total profit	\$29,636,912	\$30,063,477	\$59,700,389		

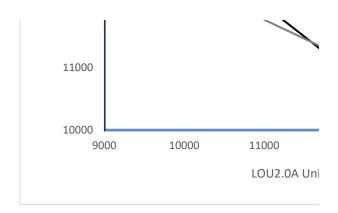


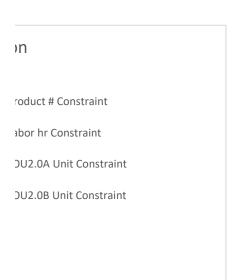
XA		Product # (Labor hr Cc	LOU2.0A Unit Co	onstrai Objective f	Objective f	Objective f	Objective fo
	9000	14000	12976.74	10000	11349.42	12437.95	12800.8	13889.33
	9500	13500	12674.42	10000	10865.2	11953.74	12316.58	13405.12
	10000	13000	12372.09	10000	10380.99	11469.52	11832.37	12920.9
	10500	12500	12069.77	10000	9896.771	10985.3	11348.15	12436.68
	11000	12000	11767.44	10000	9412.554	10501.09	10863.93	11952.47
	11500	11500	11465.12	10000	8928.338	10016.87	10379.72	11468.25
	12000	11000	11162.79	10000	8444.122	9532.656	9895.501	10984.03
	12500	10500	10860.47	10000	7959.906	9048.44	9411.284	10499.82
	13000	10000	10558.14	10000	7475.689	8564.224	8927.068	10015.6
	13500	9500	10255.81	10000	6991.473	8080.007	8442.852	9531.386
	14000	9000	9953.488	10000	6507.257	7595.791	7958.636	9047.17

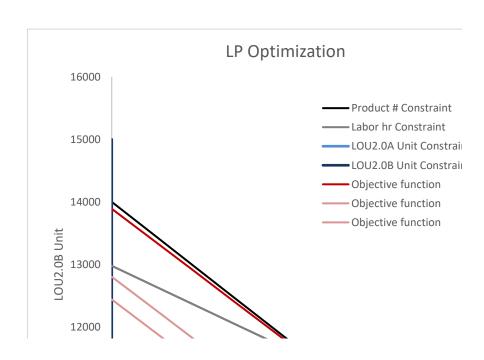
LOU2.0B Unit Constraint

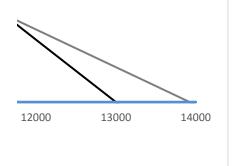
10000			
10500			
11000			
11500			
12000			
12500			
13000			
13500			
14000			
14500			
15000			
	10500 11000 11500 12000 12500 13000 13500 14000 14500	10500 11000 11500 12000 12500 13000 13500 14000	10500 11000 11500 12000 12500 13000 13500 14000

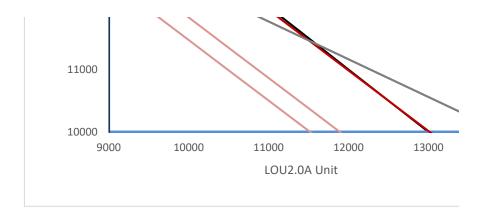












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