

# Sheet1

## Blending Problem for the Gourmet Cat Food Company

Basic Food Source	Calories	Protein	Fats
Beef	1920	96	224
Chicken	640	112	32
Fish	576	128	16
Grain Mix	960	80	60
(OBJECTIVE)	Minimize Cost:		0.00
(CONSTRAINTS)	Total Blend		100.00
			-100.00
	Individual Foods:		
		Chicken	50.00
		Grain Mix	10.00
	Target Calories		1000.00
			-900.00
	Protein		-100.00
	Fats and		120.00
	Carbohydrates		

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Carbohydrates	Cost/lb.	(ADJUSTABLES)	
		Desired Blend	
	32	\$3.20	0.00 %
	32	\$1.80	0.00 %
	16	\$4.00	0.00 %
	160	\$0.80	0.00 %

/lb.

> or = 100% and

< or = 100% (these two are equivalent to an "=" constraint)

< or = 50% of total

< or = 10% of total

< or = 1000/lb and

> or = 900/lb.

> or = 100/lb.

< or = 120/lb. together