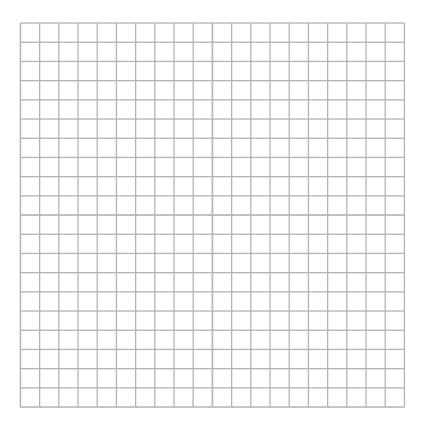
Chapter 6

Section 6.4 Optimization Problems Creating the Model

Linear Inequalities

Name:		Date:
An	_ problem is a problem in which we find the great	test or least value of functions.
The method used to solve such	n problems is called	and consists of two parts:
1.		
2.		
can be made in one day to: no and no more than 20 vehicles	otorcycles and bicycles. A restricted work area lim more than 10 motorcycles can be made, no more of both kinds can be made. If the profit is \$25 for rate of production of both vehicles be to maximiz	e than 15 bicycles can be made, r a motorcycle and \$50 for a
Step 1 Identify the qua	ntity that must be optimized.	
Step 2 Define the varia	bles that affect the quantity to be optimized and	state any restrictions.

Step 3 Write a system of linear inequalities to describe all the constraints of the problem and graph the feasible solution. Graph the feasible solution.



Step 4 Write the objective function.