

Names/Folder Letter (up to three, legible roster names):

MATH 1470 Tintera Bonus Homework Template

This worksheet refers to the 'Practice Linear Programming Problems' linked to the calendar page.

Use Excel to solve the problems. Attach Sensitivity Analysis sheets to show how you got your answers.

Problem/Question	Solution
1a Solution to original problem:	
1b The television station manager will accept an additional ad if he beats the CEO of the chain in golf. How many additional viewers would that mean to chain?	
1c How many rounds of golf should the CEO lose to the manager if he wants to further increase his viewers?	
1d A revised rating system shows that only 10,000 potential customers view the daytime ads. Should the chain change its plan of advertising from the original?	
2a. Solution to the original problem:	
2b William lost an order for one pound of seed. By how much will the seeding company's cost decrease as result?	
2c. William keeps losing orders, pound by pound. How many one pound orders can he lose before the cost stops decreasing?	
2d. Due to a Bermuda High taking hold over Florida, the price of ryegrass has doubled from 20 cents to 40 cents. Compared to the original problem and its solution the guys need to change their mixture of seed to minimize their cost?	
3a. Solution to the original problem:	
3b. The restaurant wants to increase its order of heavy beer by a single barrel. What will this do to Cerveza Gordo's costs?	
3c. By how much can the restaurant increase its order and have the costs increase exactly as in the previous question?	
3d. The cost of the main ingredient of regular beer has dramatically fallen in price, making the price of regular beer now \$800 per barrel. Will Cerveza Gordo have to change its plan for brewing the three types of beer?	