# Maximizing Profit- Using Solver

### HotSprings Spas manufactures and sells two spa models: the Steamboat and the Classic.

### HotSprings Spas receives spa bodies from another manufacturer and then adds a pump

### and tubing to circulate the water. The Steamboat model demands 15.5 hours of labor and

### 14.5 feet of tubing. The Classic model requires 10.5 hours of labor and uses 20 feet of tubing.

### Based on selling patterns, the owner, Deborah Liebson, has determined that the Steamboat

### model generates a profit of $400 per unit, and each Classic model generates $345 profit.

### While Deborah would like a large labor capacity and sufficient tubing and motors to build

### any number of spas, her resources are limited. For the next production period, Deborah has

### 2,650 labor hours, 3,450 feet of tubing, and 231 pumps available. Deborah needs assistance

### in figuring out how many Steamboat and Classic models to build in order to maximize her

### profit. Given the constraints above, use Solver to assist Deborah in her what-if analysis.

### Deborah has provided you with a screen shot of a template you can use to get started.

