

3. Use Solver to produce a solution, and then create an answer report.
4. Format the Orders worksheet to give it a professional appearance.
5. Preview the worksheet and make any necessary formatting changes.
6. Save the workbook, and then preview and print its contents.

**Case 2. Manufacturing Pontoon Boats at Robbins Pontoon Incorporated** Mike Chignell is the assistant to the director of manufacturing at Robbins Pontoon Incorporated. Robbins manufactures four different models of pontoon boats: All Purpose, Camping, Utility, and Fishing. Each of the four models is built on the same boat frame. A topside assembly is attached to the frame to create each model.

Robbins currently has 135 boat frames in stock and a limited number of the four different topside assemblies. Mike wants you to determine the mix of models that will generate the greatest profit, given the available frames and topside assemblies. You'll have to make sure he manufactures enough of each model to fill the customer orders. Do the following:

1. If necessary, start Excel, open the **Pontoon** workbook in the Cases folder for Tutorial.10 on your Data Disk, and save it in the same folder as **Pontoon Boat Order**. Enter the new worksheet name, your name, and the date on the Documentation sheet.
2. Go to the Orders worksheet and then set up the Solver parameters for this problem using the following guidelines:
  - a. You want to maximize the total profit from all models of pontoon boats by changing the quantity to make of each boat model.
  - b. The optimal solution should include the following limits:
    - You cannot make more boats than you have available assemblies for each type.
    - You have to satisfy the customer orders for each boat type.
    - The total number of boats you make cannot exceed the total number of available frames.
    - Make only complete boats.
3. Use Solver to produce a solution and generate an answer report.
4. Modify the answer report worksheet so it contains your name, the date, and the filename.
5. Format the worksheet to give it a professional appearance.
6. Preview the printout and make any formatting changes necessary for a professional appearance.
7. Save the completed workbook, and then preview and print the completed worksheet.

**Case 3. Scheduling Employees at Chipster's Pizza** Lisa Avner is the assistant manager at Chipster's Pizza, a popular pizza place located in Cedar Falls, Iowa. Chipster's is open every day from 5:00 p.m. to 1:00 a.m. Friday and Saturday are the busiest nights; Sunday and Wednesday nights are moderately busy; Monday, Tuesday, and Thursday are the slowest nights.

Lisa is responsible for devising a schedule that provides enough employees to meet the usual demand, without scheduling more employees than are needed for each shift. All of Chipster's employees work five consecutive days and then have two days off. This means Lisa can schedule employees for seven different shifts—the Sunday through Thursday shift, the Monday through Friday shift, the Tuesday through Saturday shift, and so forth.