

## **Problem Solving 8 – E-Day/Blizzard Bag Assignment #1**

Solve the following problem. Show all work. Label all answers. Submit a written summary of your process and answer(s) following the POW rubric and guidelines given to you. Remember to include HOW you solved the problem in your write-up.

### **POW:**

Five friends, whose names are Gail, Margery, Nora, Pamela, and Ramona, each wore a different colored dress to the senior prom. The colors of the dresses were blue, green, orange, pink, and yellow. In alphabetical order, the last names of the five girls are Clausen, Jensen, Mathers, Oblinski, and Smith. From the information given below, determine the first and last name of each girl as well as the color of the dress that each one wore to their senior prom.

1. The girl who wore a blue dress and Ms. Mathers do not have the first name of Margery or Ramona.
2. Either Ms. Oblinski or Ms. Smith, who wore an orange dress, is name Pamela.
3. Margery is not Ms. Smith, and she did not wear a pink dress.
4. Nora, Pamela, and Ms. Clausen did not wear a blue or orange dress.
5. Of Gail and Pamela, one is Ms. Jensen and one wore a green dress.

### **EXTENSION:**

Forgetting the clues you are given, how many different combinations of first name, last name, and color of dress are there? Explain your answer.