**Honors Algebra II**

**Section 1.3 Supplementary Word Problems**

**Give a complete solution for each of the following problems.**

1. A druggist has one solution that is 10% iodine and another that is 50% iodine. How many milliliters of each solution should the druggist use to get 100 milliliters of a mixture that is 20% iodine?
2. A Chemist has one solution that is 25% salt and 75% water and another solution that is only 5% salt. How many milliliters of each should the chemist use to make 1400 ml of a solution that is 10% salt?
3. How much water must be evaporated from 400 gallons of a 15% saline solution to get a 40% saline solution?
4. When Frank and Mark finished milking, they found that they had 900 pounds of milk that was 2% butterfat. How much butterfat did they have to add to raise the total butterfat content to 8%?