Ration Formulation Handout

1. Formulate a 500 lb. cattle feed ration that requires a CP of 23%. Your feeds are corn at 9% CP and a supplement at 15%. Show ALL your work below.
2. You have a goat that is on a feed that requires a CP of 30%. The CP of the two feeds you are going to use are barley at 7.2% CP and soybean meal at 18% CP. Using these two feeds, formulate a 150 lb. ration that meets the requirements of your goat. Show ALL work below.
3. You are the owner of a feedlot trying to finish out some cattle for slaughter. You need 5000 lbs. of feed that have a CP of 55% at the lowest cost possible. You have several feed options to choose from. Utilizing these feeds, create a ration that meets the nutritional requirements of your cattle at the most efficient cost to you. Show ALL work, including the final cost of your feed!!

Corn- 8% CP, $ .76 per lb.

Barley – 7.8% CP, $. 62 per lb.

Wheat Straw – 13% CP, $1.02 per lb.

Soybean Meal – 44% CP, $2.50 per lb.

Molasses – 5% CP, $ .50 per lb.

Fish Meal – 50% CP, $1.00 per lb.