

Pearson Square Worksheet

Work in groups of two and use the Pearson square procedure to answer the following questions.

1. You have a bagged sweet feed that is 10% protein. You need a 14% protein feed to finish your steer, so you will supplement with SBM that is 38% protein. What ratio of feed to supplement should you mix?
2. You want to feed Pig Master G/F concentrate to supplement your corn ration. You want to feed a 16% mix. Your corn is 9% protein and the concentrate is 40% protein. If you are mixing a 2000 lb batch, how many lbs of concentrate will you mix in and how many lbs corn will you mix in? Does this match the recommended 500 lbs concentrate to 1500 lbs grain that the bag instructs?
3. You are feeding your horses a 25 lb ration of grain and hay. You feed a 14% grain and a 9% orchard grass hay. If you want an 11% protein diet, how many lbs of grain and how many lbs of hay will you feed each day?
4. You know that you should feed you ewes 3 lbs of grain per day. You also know that they should be getting .41 lbs of protein per day. What percent protein feed should you be feeding? Can you achieve this percentage feeding corn that is 9% protein and oats that are 10% protein? If so, how many lbs of each would you feed? If not, what would you add to the ration to increase the protein, and how much would you add?
5. You have recently learned that fat increases body condition without making an animal hyper. This is applicable to you because you have a stalled horse that needs to gain weight, but high protein/high starch feeds make her hyper. You have discovered that hominy feed has 10% fat and 11% protein. You already feed Senior which has 7% fat and 14% protein. Balance her ration for 9% fat. What percent protein would this ration yield?