Texico FFA Poultry Test 2024

Balance the following ration for laying hens that are over 17 weeks old. They need a ration that is 16% protein. Using a protein supplement that is 37% protein and corn that is 9% protein, determine the proper amount of each to answer the following questions.

1. What is the correct percentage of corn in the final ration?
2. 25%
3. 50%
4. 75%
5. 20%
6. What is the correct percentage of protein supplement?
7. 25%
8. 50%
9. 75%
10. 20%
11. How many pounds of corn would be in a 1000lb. batch?
12. 250
13. 750
14. 160
15. 1600
16. How many pounds of protein supplement would be in a 1000lb. batch?
17. 370
18. 3700
19. 750
20. 250
21. If corn costs $4.00/lb. and the protein supplement costs $8.00/lb., What would be the cost of the ration be per pound?
22. $3.00
23. $5.00
24. $8.00
25. $12.00

Use the “Pearson’s Square” method to solve.

Corn 9% 21

Desired 16% Figure the difference across to get parts of each product.

Protein 37% 7

 28 total parts

Corn 21/28= .75\*100=75%, .75\*1000=750lbs, .75\*$ 4.00= $3.00

Supp. 7/28= .25\*100=25%, .25\*1000=250lbs, .25\* $8.00=$2.00

 100% 1000lbs $5.00