1. A farmer bought 150 pounds of a **25-20-25** fertilizer.
   1. How many pounds of **Nitrogen** did she buy?
   2. How many pounds of **P2O5**did she buy?
   3. How many pounds of **K2O** did she buy?
2. A soil sample from a field in central Iowa had the following soil analysis results:
   1. Mehlich-3p = 5ppm
   2. Mehlich-3 Extractable K Dry = 145 ppm

Based on this analysis, what are the pounds to apply per acre for Phosphorus (P2O5) and Potassium (K2O) fertilizer requirements for **corn grain production?**

\_\_\_\_\_\_\_\_\_\_lbs of P2O5 \_\_\_\_\_\_\_\_\_\_lbs of K2O

1. A soil sample from a field in northern Iowa had the following analysis results:
   1. Olsen P = 12 ppm
   2. Mehlich-3 Extractable K Dry = 130 ppm

Based on this analysis, what are the pound to apply per acre for Phosphorus (P2O5) and Potassium (K2O) fertilizer requirements for **Soybean production?**

\_\_\_\_\_\_\_\_\_\_lbs of P2O5 \_\_\_\_\_\_\_\_\_\_lbs of K2O

1. A soil sample from a field in northern Iowa had the following analysis results:
   1. Mehlich-3 ICP P = 46 ppm
   2. Mehlich-3 Extractable K Dry = 132 ppm

Based on this analysis, what are the pound to apply per acre for Phosphorus (P2O5) and Potassium (K2O) fertilizer requirements for **alfalfa production?**

\_\_\_\_\_\_\_\_\_\_lbs of P2O5 \_\_\_\_\_\_\_\_\_\_lbs of K2O

1. A farmer in western Iowa has 3 fields. Each one needs a different amount of potassium (K2O) for corn production. How many total pounds of Potash (0-0-60) should the farmer purchase?
   1. Field 1 is 50 acres and needs 120 pounds of K2O per acer
   2. Field 2 is 85 acres and needs 67 pounds of K2O per acre
   3. Field 3 is 120 acres and needs 85 pounds of K2O per acre

\_\_\_\_\_\_\_\_\_\_\_ total pounds of Potash

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