**SOIL 4234 Laboratory #9**

**Fertilizer Calculations Pre-Lab (5 points)**

**Due Wednesday, October 17th at the beginning of lab**

Student

Lab

TA

1. (2 pts.) Fertilizer nutrient analysis for each fertilizer is written as (%N - %P2O5 - %K2O). Familiarize yourself with common fertilizers used in Oklahoma by completing the following.

Urea: ( - - )

Urea-ammonium nitrate (solution): ( - - )

Diammonium phosphate (DAP): ( - - )

Triple super phosphate (TSP): ( - - )

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ( 82 - 0 - 0 )

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (11 - 52 - 0 )

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (34 - 0 - 0 )

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (0 - 0 - 60 )

1. (2 pts.) Unit conversion is an essential part of fertilizer calculations. Complete the following.

\_\_\_\_\_\_\_\_\_\_\_\_\_ lbs = 1 ton

\_\_\_\_\_\_\_\_\_\_\_\_\_ ft2 = 1 acre

\_\_\_\_\_\_\_\_\_\_\_\_\_ mL = 1 ounce

\_\_\_\_\_\_\_\_\_\_\_\_\_ cm = 1 inch

\_\_\_\_\_\_\_\_\_\_\_\_\_ L = 1 gallon

\_\_\_\_\_\_\_\_\_\_\_\_\_ lbs = 1 kg

\_\_\_\_\_\_\_\_\_\_\_\_\_ acre = 1 hectare (ha)

\_\_\_\_\_\_\_\_\_\_\_\_\_ seconds = 1 hour

1. (1 pts.) List one advantage and one disadvantage for the broadcast method for fertilizer application.