1. How many acres are in a field that measures 385 feet long by 225 feet wide?
   *Hint: one acre = 43,560 square ft.*

2. How many acres can you spray with a full tank if the tank holds 1000 gallons, and you are spraying at 8 GPA?

3. How many gallons of herbicide do you need to mix a full tank?
   - Tank capacity = 100 gallons
   - Spray volume = 12.5 GPA
   - Product rate = 2 pints product per acre
   - Tractor speed = 10 MPH
   *Hint: first determine how many acres you can spray with a full tank
   *Hint: there may be more information than you need.*

4. How much 75W herbicide do you need to treat 1500 acres if the recommended application rate is 0.3 pounds active ingredient per acre?
   *Hint: divide the amount you need (lbs ai) by the percent in the product*

5. How much 2E herbicide do you need to treat 1500 acres if the recommended application rate is 0.3 pounds active ingredient per acre?
   *Hint: divide the amount you need (lbs ai) by the amount in the formulation (lbs/gal)*

6. How many fluid ounces of wetting agent do you need for a 75 gallon tank if the herbicide label recommends adding a surfactant at 0.5% v/v?
   *Hint: in the last step, convert gallons to ounces*

7. You are spraying herbicide in 24” bands in rows that are 36” apart. If your field is 2 acres, how many acres are actually treated?