FOR 274 Assignment 2 [25 points] Name: __________

This assignment should be completed and handed in to the assignment box in the Forest Resources office by noon on Monday 7th September.

NOTICE: Where working is required, *zero credit* will be given if no working is shown.

1. Convert the following measurements as specified [Working required – do not use an online /iphone convertor!]:
   a. 24 inches to millimeters
   b. 18 square chains to acres
   c. 5,000 cu ft per acre to m³ per ha
   d. 24,000 kg per ha to grams per m²
   e. 200 lbs per ac to kg per ha
   f. 68 ha to acres
   g. 4.8 km to ft
   h. 0.1 acres to hectares
   i. 563 m³ per ha to cubic feet per acre
   j. 23 square miles to km²

2. Write these numbers in scientific notation:
   a. 4260
   b. 38400
   c. .0258
   d. .005454
3. Write the equation for determining the radius of a circular plot when the area is known

4. Write the equation for determining the length of the hypotenuse of a right angle triangle

5. Use the "Combining Errors Handout" to answer the following questions [Working required]:
   a. The measure of tree biomass of a particular tree was made up of 3 main components:
      - The biomass in the foliage = 380 ± 10 kg
      - The biomass of the stem = 2100 ± 20 kg
      - The biomass of the roots = 1600 ± 60 kg
      Calculate the total tree biomass and the total error.

   b. Calculate the total area of a rectangular stand if the width was determined by pacing (400 ± 40 feet) and the breadth was determined by analysis of an aerial photograph (200 ± 10 feet)