| FOR 274 Assignment 2 [25 points] Name: |
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| This assignment should be completed and handed in to the assignment box in the Forest Resources office by noon on Monday 7 th September. |
| NOTICE: Where working is required, *zero credit* will be given if no working is shown. |
| 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 m ³ per ha |
| d. 24,000 kg per ha to grams per m ² |
| 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 |
| Write these numbers in scientific notation:a. 4260 |
| b. 38400 |
| c0258 |

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 trinagle
- **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 = $380 \pm 10 \text{ kg}$
 - The biomass of the stem = $2100 \pm 20 \text{ kg}$
 - The biomass of the roots = $1600 \pm 60 \text{ kg}$

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 \pm 40 feet) and the breadth was determined by analysis of an aerial photograph (200 \pm 10 feet)