Name:	Date:	Course:	Professor:

M4a - Density and Significant Figure Problems



Read the lab instructions and watch the videos before answering questions

1. If a non-perfect cube has the following dimensions:

length = 33.5 mm

width = 33.0 mm

Height = 34.0 mm

• Convert the dimensions to cm and then calculate the volume in cm³

2. If the mass of the cube from previous question is:

$$Mass = 83.038 g$$

Calculate the density of the cube and round it to the proper number of significant figures.

 $Hint: Density = \frac{M}{V}$