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:

$length = 31.5\ mm$

$width = 31.0\ mm$

$Height = 32.0\ mm$

- Convert the dimensions to cm and then calculate the volume in cm^3

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

$Mass = 81.038\ g$

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

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