CHEM 1100 Density and Significant Figures Worksheet

Practice putting your anwers in the boxes, use correct significant figures, correct scientific notation and correct units.

Significant figures:

- 1. All non zero numbers are significant
- 2. Lone zeros before the decimal are not significant
- 3. Zeros after the decimal before digits are not significant
- 4. Zeros after the non zero numbers after the decimal are significant
- 5. Use scientific notation to avoid confusion

1. What is the density of a cylinder that has a mass of 37.422 g, a diar of 4.20 cm?	neter of 2.05 cm and a length
2. Calculate Density: A piece of metal is put into a graduated cylinder a 120.25mL. The volume of water before the addition was 112.10mL. The mass of the metal is 56.75 g.	
3. A metal has a density of 8.54 g/mL and it weighs 120.3 g. What is t	the volume?
4. The density of the white powder is 1.24 g/mL. The mass is 3.2220,	what is the volume?