SIGNIFICANT FIGURE PRACTICE

Name

1. Indicate the number of significant digits in each of the following measurements.

c.
$$1.004 \times 10^{-7} \text{ m}$$

2. Round off the following numbers to the indicated number of significant figures.

3. Determine the result to the correct number of significant figures.

a.
$$\left(\frac{3.2 \text{ cm} \times 1.23 \text{ cm} \times 0.5 \text{ cm}}{8.32 \text{ cm} \times 1.000 \text{ cm} \times 0.500 \text{ cm}}\right) =$$

c.
$$\left(\frac{6.00 \text{ g}}{16.1 \text{ mL} - 8.440 \text{ mL}}\right) =$$

4.

I	Perform the following conversions (1 lb = 453.59 g; 1 L = 1.0567 qt; 1 inch = 2.54 cm):
a	1. 100. km to miles (use at least 3 conversion factors).
b	o. A liquid has a critical temperature of 154.4 K; calculate the temperature in °F and °C.
c	e. The thickness of a human hair is approximately 70,000 nm; calculate the thickness in millimeters
d	d. A typical soft drink container is 355 mL; determine the number of quarts of the soft drink container
F	Perform the following conversion: The density of water is 1.00 g/cm ³ . Convert to pounds/foot ³ .

5.