Chapter 1 Worksheet

What is matter?
List an example of a homogeneous and heterogeneous mixture:
What is an intensive property? Provide examples:
What is an extensive property? Provide examples:
Give an example of a physical change and a chemical change:
What are significant figures?

What are the rules fo	or sig figs?		
Identify the number	of significant figures:		
432	0.00789	10100	3.040
7.5 x10 ³	120.00	560,000.	10 ²

Write each number given using exactly the number of significant figures specified:

- 1. Rewrite 2543 with 2 sig figs: _____
- 2. Rewrite 7.4368 with 3 sig figs: ______
- 3. Rewrite 120,000 with 4 sig figs: ______

Provide answers with the correct number of sig figs for following questions:

What is 12.35 mL + 7.2 mL + 0.678 mL?

Calculate: 4.56 cm × 2.3 cm × 0.123 cm

Convert the following problems:
0.00042 liters to milliliters
6700 milligrams to grams
35 meters to inches
What is 83° F converted into Celsius and Kelvin?
What is 492K converted into Celsius and Fahrenheit?
Solve for density:
A solution has a mass of 250.0 g and a volume of 200.0 mL. What is its density?