Dimensional Analysis Practice

Use dimensional analysis to answer each question. Record your solutions and notes in the spaces provided.

the spaces provided.	
1.	Find the number of centimeters in 1.00 x 10 ² yards
2.	Determine the number of meters in 1.00 miles.
3.	The speed of light is 1.86×10^5 miles per second. How many meters will light travel in 1.0 seconds?
4.	Calculate the number of seconds in a year.
	Carculate the number of seconds in a year.
6.	The density of mercury is 13.55 g/ml, and the density of gold is 19.32 g/ml.
	a) What is the density of mercury in kg/L?
	b) A 10.0 mL graduated cylinder is filled to 5.00 mL. A ring is placed in the graduated cylinder, and the water level rises to 5.15 mL. The ring is then dried and placed on a balance, and its mass is 2.8315g. Find the density of

the ring.