For all problems, please show the dimensional analysis setup and give the answer to the correct number of significant figures.

1.	Convert the following quantities into SI units with the correct number of significant figures:	
	a)	5.4 in to cm
	b)	66.31 lb to g
	c)	0.552 gal to mL
2.	Copper ha	s a density of 8.96 g/cm ³ . What is the mass of 75.3 cm ³ of copper?
3.	The maxin speed to m	num speed of some U.S. interstate highways is 75 mi/h. Convert this n/s.

Chemistry 51

- 4. Convert each of the following quantities:
 - a) 253 mi to m

b) 536 mg to kg

c) 85°C to °F and K

d) 320°F to °C