	Check - Scientific Notation, Standard Notation, Significant Figures, Density, Temperature
Name:	
1.	Put the following humbers into scientific notation. a. 6,800,000,000 X 1 D
	c. 155,000
2.	Put the following numbers into standard notation.
2	a. 4.65 x 10 ⁻⁷
	b. 3.8×10^5
	c. 2.76 x 10 ⁻⁵ 0.000276
3.	Identify the number of significant figures in the following measurements.
	a. 5.00000 m 6
	b. 0.00000405 g
	c. 100. mL` <u>3</u>
4.	Complete the following calculations and keep the correct number of significant figures.
	a. 2.500 cm + 4.5000 cm + 5.000 cm
	b. 100.00 m x 2.00 m x 5.0 m
	c. 4,000. kg - 100.00 kg 3900 · Kg
	d. 500.00g / 250 mL 20g/ mL
E	Complete the following conversions. Be sure to keep the correct number of significant figures and the same t
5.	Complete the following conversions. Be sure to keep the correct number of significant figures and the correct units in your answers.
	a. How many mm are in 8.9 km? 8.9 km x 1000 m x 1000 mm = 8900,000 mm
	1km Im
	b. How many g are in 5,000 kg? 5000 kg x 1000 g = 5,000,000 g
	149
	c. How many kL are in 4.50 x 10 ⁸ mL? 4.50 x 10 mL x 1 L x 1 L = 4.50 x 10
	1000ml 1000L
6.	The density of a sample of cork is 0.24 g/mL. What is the mass of this sample if it has a volume of 400 mL?
	m= 0.243/mc x 400mc = 96 g 7 100g
7.	The mass of a cube of iron is 600 g. What is the volume of this cube of iron (d=8.0g/mL)?
	V= M = 6009 . 75 ML 7 ROWL
	V= M = 6009 75 ML 7 80 ML
8.	what is the density of a chemical that has a mass of 484 g and a volume of 325 mL?
	$d = \frac{M}{V} = \frac{4849}{335mL} = 1.499/mL$
	V 335mL
9.	Carry out the following temperature conversions.
	a. 340K to °C 66.85°C
	b. 5°C to K 278.15 k
	c. 2,500 °C to K 277315 K
	d. 65K to °C - 208 .15 ° C