## CHEM 191 Workshop 1.1: Fundamentals

Name:		_		
		n it in by the end of the		v all work for credit. D for more information.
<ul> <li>3,100,00</li> <li>100</li> <li>0.1</li> <li>0.0524</li> <li>1 part p</li> </ul>	lowing numbers in so 0 er million (ppm) per billion (ppb)	cientific notation:		
<ul> <li>2. Give the name symbols:</li> <li>c</li> <li>G</li> <li>k</li> <li>m</li> <li>μ</li> <li>n</li> <li>M</li> </ul>	Name	Quantity  Quantity  -  -  -  -  -  -  -  -  -  -  -  -  -	otation, e.g. 10 <sup>3</sup> ) inc	dicated by the following SI

3.	Convert	the	following	and	show	your	work	for	each.
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## 4. Calculate:

$$\bullet \ \ (2.8\times 10^{-9})\times (5.7\times 10^{-3})$$

• 
$$(3.5 \times 10^6) \div (29 \times 10^{10})$$

• 
$$35 \text{ m} \div 408 \text{ mm}$$

5.	A can of soda contains $12.0$ oz of liquid. How many milliliters is this? Show your work.
6.	Classify the following measurements as accurate, precise, both, or neither.  • Consistency of the weight of cookies weighing 17.27 g, 13.05 g, 19.46 g, 16.92 g.
	. Charling a goals with a 10 00 g weight that roads 13 04 g 13 12 g 13 08 g and 13 43 g
	$\bullet$ Checking a scale with a 10.00 g weight that reads 13.04 g, 13.12 g, 12.98 g, and 13.43 g.
	• Checking a batch of thermometers held in a temperature-controlled room at 20°C with readings
	of $20.53^{\circ}$ C, $19.98^{\circ}$ C, $20.26^{\circ}$ C, and $20.19^{\circ}$ C