## **PreAP Chemistry Homework #1**

Copying is not allowed!

1.	Write each of the following num  a) 91,100  c) 6400  e) 0.0816	_ b)	0.000000075		
2.	Convert each of the following n a) 2.24 x 10 <sup>-5</sup> b) 9.3 x 10 <sup>2</sup> c) 4.20 x 10 <sup>4</sup>	numbe 	rs in exponential notation to d) 2.95 x 10 <sup>-3</sup> e) 7.35 x 10 <sup>-2</sup> f) 8.18 x 10 <sup>-12</sup>		
3.	scientific notation:		ent between one and ten (in d) 43.9 x 10 <sup>-1</sup> e) 0.0165 x 10 <sup>-2</sup> f) 0.0641 x 10 <sup>6</sup>		r words, write each number in CORRECT
4.	How many significant figures are in each of the quantities listed below:				
	a) 454 mg	_ d)	0.0680 km	g)	0.1536 g
	b) 0.0353 L	e)	10.0 mL	h)	0.0060 g
	c) 52.20 mL	_ f)	3 x 10 <sup>7</sup> kg	i)	1.898 x 10 <sup>-3</sup> g
	j) 2500 m				
5.	Round off the given quantity 7.758064 to the number of significant figures indicated:				
	one	thre	ee	five	
	two	foui	-	_ six	
6. 7.	$\frac{0.370 \times 843 \times 0.0704}{0.0042 \times 17.10} = \phantom{00000000000000000000000000000000000$		· 		ect number of significant figures: proper number of significant figures:
	a) 18.7 - 0.56=				+1765+2.64=
8.	Round off the quantity 4.10673		•		
•	one				
			•		
9.	Express each of the following in correct scientific notation with the correct number of significant figures:				
	a) $(5.68 \times 10^{-4}) \times (6.52 \times 10^{4})$				
	b) (7.53 x 10 <sup>5</sup> ) x (1.56 x 10 <sup>-9</sup> )				
10.	Express each of the following in correct scientific notation with the correct number of significant figures:				
	a) $(6.74 \times 10^{-8}) / (2.34 \times 10^{6})$				
	b) (1.45 x 10 <sup>9</sup> ) / (9.35 x 10 <sup>-7</sup> )				
	b) (1.40 x 10 )/(8.30 x 10 )		<del></del>		