CHEM	5	SPRING	2016
15 pt			

QUIZ 1 (CHP 1.8-1.9)

NAME	KEY	
		JAN 22, 2016

		decimal notation or scientific	notation, which ever is called for.
0.00309 expresse	ed in scientific notation is	7 10 . 10	3
3009.1 expressed	d in scientific notation is	3.00 91× 10	3
1268 x 10 ⁴ expre	essed in correct scientific	notation is 1.268	×10 7
$3.01 \times 10^{-3} \text{ expre}$	ssed in correct decimal ne	otation is 0.003	01
9.91 x 10 ⁵ expres	ssed in correct decimal no	otation is 991,00	D
2. (1 pt) Which 2) 1.47 x	of the following 10 ³ 3) 1470	g numbers is (are) eq	uivalent? 1) 1,470
a) 1 and 2 them	b) 2 an	d 3 c) 1 and 3	d) none of them e) all
3. (1 pt) How m	any significant o	digits are indicated d) 5	in 2300 kg? (a) 2 b) 3 c
4. (2 pt) Perform the figures.	following mathematical o	operations. Express your answer	ers to the correct number of significant
$(2.1 \times 10^6) \times ($	$8.49 \times 10^{-11}) =$	78×10 -	1.8×10-4
$\frac{(6.983 \times 10^3)}{(4 \times 10^{14})}$	= 1.746 ×	(10-11 -)	2410-11
operations	and expresses the digits? 8.97 +	performs the indica e answer using the pr 6.3214 + .9001 = d) 16.1915	ted mathematical coper number of
	of the following as an av	act (E) or inexact number (I) n	
6. (4 pt) Classify each A) 7 railroad cars	B) 12 dozen apples	C) 14 gallons of gasoline	D) The temperature is 93°F