## Chemistry 120 Quiz 1 – Spring 2017

1 Determine the number of significant	it figures in the fol	lowing values:	
A 190.802 mL6	B 7 whales0	/ Exact Number	
C 0.0010120 lb <b>5</b>			
D 5215 miles4			
2 Round the following values to 3 sign	_		
A 3.68801 B 0.04219	75 <b>0.0422</b>	C 8.75430	_8.75
D 4.0098 x 10 <sup>-12</sup> <b>4.01 x 10</b> <sup>-12</sup>			
3 Perform the following unitless calcu			
significant figures. Assume that all of			
A 3.41 – 0.086652 = <b>3.32</b>	B 16 x 841.4 ÷ 16.3	00 = <b>830 or 8.3 x 10</b>	2
C 21.01 x 2.0 = D 14.	$.044 + 8.11 \times 3.4 = $	42	
4 Convert the following values into so	cientific notation, o	or if given in scientific	notation, convert back
to a regular number:			
52,000 <b>5.200x10</b> <sup>4</sup>	00,000,000,000,000 _	_2.50x10 <sup>20</sup>	
b) 0.0006 <b>6 x 10</b> -4 d) 0.000	)0009548 <b>9.548</b> :	к <b>10</b> <sup>-7</sup>	
5 Perform the following mathematica	al operations		
$10^{4}$			
$\overline{10^{-13}} =$			
6 Perform the following operations a	nd express each ar	nswer in scientific not	ation:
$(3.5 \times 10^{13}) (7.1 \times 10^{-6}) = $ 2.5 x 10 <sup>8</sup>	<b>.</b>		