Chemistry 115 Name

Dr. Cary Willard

Quiz 1E (20 points) September 9, 2008

All work must be shown to receive full credit

1. (4 points) How many significant figures are in the following numbers
	1. 90.054
	2. 0.0000956
	3. 500000
	4. $6.400 x 10^{73}$
2. (6 points) Perform the following calculations to the correct number of significant figures
	1. $563.533-485.4= $
	2. $0.06441×\frac{15.533}{0.850}=$
3. (8 points) Perform the following conversions using dimensional analysis
	1. Convert 7.32 X 10+4 mm into km
	2. Convert 3.64 x 10-4 gallons into mL (remember there are 1.06 qt in 1 L and there are 4 qt in 1 gallon)
4. (2 points) Is Coca-Cola considered to be a pure substance or a mixture?

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Quiz 1F (20 points) September 9, 2008

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1. (4 points) How many significant figures are in the following numbers
	1. 2.005
	2. 0.0082
	3. 597000
	4. $6.75400 x 10^{73}$
2. (6 points) Perform the following calculations to the correct number of significant figures
	1. $428.831-342.4= $
	2. $0.08531×\frac{14.886}{0.850}=$
3. (8 points) Perform the following conversions using dimensional analysis
	1. Convert 3.51 X 10+4 mm into km
	2. Convert 6.82 x 10-4 gallons into mL (remember there are 1.06 qt in 1 L and there are 4 qt in 1 gallon)
4. (2 points) Is Coca-Cola considered to be a pure substance or a mixture?