Chemistry 115 Name key

Dr. Cary Willard

Quiz 1a (20 points) August 29, 2012

All work must be shown to receive credit. Give answers to the correct number of significant figures.

1. (4 points)Give the name of the elements represented by the following two elemental symbols.
	1. Na sodium
	2. P phosphorus
2. (4 points) Write the elemental symbol for each of the following elements.
	1. Copper Cu
	2. Silicon Si
3. (6 points) Perform the following conversions?
	1. Convert 6.23 mL to L

$$?L=6.23 mL×\frac{1 L}{1000 mL}=0.00623 L or 6.23 x 10^{-3}L$$

* 1. Convert 9.52 kg to cg

$$?cg=9.52 kg×\frac{1000 g}{1 kg}×\frac{100 cg}{1 g}=9.52×10^{5} cg$$

1. (6 points) A lake holds 39,400 gallons of water. What is this volume in L? (1 qt = 946 mL, 1 gal = 4 qt)

$$?L water=39400 gal×\frac{4 qt}{1 gal}×\frac{946 mL}{1 qt}×\frac{1 L}{1000 mL}=1.49×10^{5} L water$$

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Quiz 1b (20 points) August 29, 2012

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1. (4 points)Give the name of the elements represented by the following two elemental symbols.
	1. Fe iron
	2. Cl chlorine
2. (4 points) Write the elemental symbol for each of the following elements.
	1. Titanium Ti
	2. Argon Si
3. (6 points) Perform the following conversions?
	1. Convert 9.47 mL to L

$$?L=9.47 mL×\frac{1 L}{1000 mL}=0.00947 L or 9.47 x 10^{-3}L$$

* 1. Convert 2.06 kg to cg

$$?cg=2.06 kg×\frac{1000 g}{1 kg}×\frac{100 cg}{1 g}=2.06×10^{5} cg$$

1. (6 points) A lake holds 28,700 gallons of water. What is this volume in L? (1 qt = 946 mL, 1 gal = 4 qt)

$$?L water=28700 gal×\frac{4 qt}{1 gal}×\frac{946 mL}{1 qt}×\frac{1 L}{1000 mL}=1.09×10^{5} L water$$

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Quiz 1c (20 points) August 29, 2012

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1. (4 points)Give the name of the elements represented by the following two elemental symbols.
	1. K potassium
	2. Zn zinc
2. (4 points) Write the elemental symbol for each of the following elements.
	1. Bromine Br
	2. Helium He
3. (6 points) Perform the following conversions?
	1. Convert 9.54 kg to g

$$?g=9.54 kg×\frac{1000 g}{1 kg}=9540 g or 9.54 x 10^{3}g$$

* 1. Convert 8.47 mm to km

$$?km=8.47 mm×\frac{1 m}{1000 mm}×\frac{1 km}{1000 m}=8.47×10^{-6} km$$

1. (6 points) A fish tank holds 8640 L of water. What is this volume in gal? (1 qt = 946 mL, 1 gal = 4 qt)

$$?gal water=8640 L×\frac{1000 mL}{1 L}×\frac{1 qt}{946 mL}×\frac{1 gal}{4 qt}=2280 gal water$$

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Quiz 1d (20 points) August 29, 2012

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1. (4 points)Give the name of the elements represented by the following two elemental symbols.
	1. F fluorine
	2. Mg zinc
2. (4 points) Write the elemental symbol for each of the following elements.
	1. Vanadium Br
	2. Krypton He
3. (6 points) Perform the following conversions?
	1. Convert 6.97 kg to g

$$?g=6.97 kg×\frac{1000 g}{1 kg}=6970 g or 6.97 x 10^{3}g$$

* 1. Convert 3.56 mm to km

$$?km=3.56 mm×\frac{1 m}{1000 mm}×\frac{1 km}{1000 m}=3.56×10^{-6} km$$

1. (6 points) A fish tank holds 6270 L of water. What is this volume in gal? (1 qt = 946 mL, 1 gal = 4 qt)

$$?gal water=6270 L×\frac{1000 mL}{1 L}×\frac{1 qt}{946 mL}×\frac{1 gal}{4 qt}=1660 gal water$$