Chemistry 115 Name

Dr. Cary Willard

Quiz 3A (20 points) September 15, 2009

All work must be shown to receive credit. Be sure to give your answers to the correct number of significant figures. Useful data $℉=\left(℃∙1.8\right)+32$, 1 lb = 454 g

1. (5 points) A small statue of a mole (these are very important to chemists) has a mass of 154.292 g. The statue was dropped into a graduated cylinder containing 30.0 mL of water. The total volume in the graduated cylinder increased to 64.2 mL. Calculate the density of the statue.
2. (5 points) Gold has a density of 19.30 g/mL. If a person who weighs 125 lbs were given their weight in gold, what volume in mL would the gold occupy?
3. (4 points) It is 18oC outside. What is the temperature in oF?
4. (6 points) What are the names of the following ions?
	1. Mg+2
	2. Co+3
	3. S-2

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Quiz 3B (20 points) September 15, 2009

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1. (5 points) A small statue of a mole (these are very important to chemists) has a mass of 183.424 g. The statue was dropped into a graduated cylinder containing 30.0 mL of water. The total volume in the graduated cylinder increased to 64.2 mL. Calculate the density of the statue.
2. (5 points) Gold has a density of 19.30 g/mL. If a person who weighs 135 lbs were given their weight in gold, what volume in mL would the gold occupy?
3. (4 points) It is 25oC outside. What is the temperature in oF?
4. (6 points) What are the names of the following ions?
	1. Ca+2
	2. Ni+3
	3. P-3

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Quiz 3A (20 points) September 16, 2009

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1. (5 points) A small statue of a mole (these are very important to chemists) has a mass of 73.029 g. The statue was dropped into a graduated cylinder containing 30.0 mL of water. The total volume in the graduated cylinder increased to 64.2 mL. Calculate the density of the statue.
2. (5 points) Gold has a density of 19.30 g/mL. If a person who weighs 155 lbs were given their weight in gold, what volume in mL would the gold occupy?
3. (4 points) It is 14oC outside. What is the temperature in oF?
4. (6 points) What are the names of the following ions?
	1. Na+1
	2. Cu+1
	3. F-1

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Quiz 3B (20 points) September 16, 2009

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1. (5 points) A small statue of a mole (these are very important to chemists) has a mass of 114.236 g. The statue was dropped into a graduated cylinder containing 30.0 mL of water. The total volume in the graduated cylinder increased to 64.2 mL. Calculate the density of the statue.
2. (5 points) Gold has a density of 19.30 g/mL. If a person who weighs 175 lbs were given their weight in gold, what volume in mL would the gold occupy?
3. (4 points) It is 28oC outside. What is the temperature in oF?
4. (6 points) What are the names of the following ions?
	1. K+1
	2. Ni+3
	3. N-3

Chemistry 115 Name

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Quiz 3A (20 points) September 17, 2009

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1. (5 points) A small statue of a mole (these are very important to chemists) has a mass of 94.209 g. The statue was dropped into a graduated cylinder containing 30.0 mL of water. The total volume in the graduated cylinder increased to 64.2 mL. Calculate the density of the statue.
2. (5 points) Gold has a density of 19.30 g/mL. If a person who weighs 162 lbs were given their weight in gold, what volume in mL would the gold occupy?
3. (4 points) It is 12oC outside. What is the temperature in oF?
4. (6 points) What are the names of the following ions?
	1. Al+3
	2. Ti+3
	3. Cl-1

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Quiz 3B (20 points) September 17, 2009

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1. (5 points) A small statue of a mole (these are very important to chemists) has a mass of 161.534 g. The statue was dropped into a graduated cylinder containing 30.0 mL of water. The total volume in the graduated cylinder increased to 64.2 mL. Calculate the density of the statue.
2. (5 points) Gold has a density of 19.30 g/mL. If a person who weighs 123 lbs were given their weight in gold, what volume in mL would the gold occupy?
3. (4 points) It is 22oC outside. What is the temperature in oF?
4. (6 points) What are the names of the following ions?
	1. Li+1
	2. Fe+3
	3. Br-1