Chemistry 141 Name

Cary Willard

Quiz 1a (20 points) February 3, 2009

All work must be show to receive credit. Answers should be in scientific notation and to the correct number of significant figures.

1. (3 points) Write the correct IUPAC name for each of the following compounds
   1. CoCl2
   2. MgCO3
   3. (NH4)2S
2. (3 points) Write the correct chemical formula for each of the following compounds
   1. Sulfuric acid
   2. Dibromine heptoxide
   3. Ferric oxide
3. (7 points) For the year 2002, worldwide production of aluminum was 24.4 million metric tons (1 metric ton = 1000kg, density of aluminum = 2.70 g/cm3)
   1. How many pounds of aluminum were produced?
   2. What was the volume in cubic feet of this aluminum?
4. (7 points) A new temperature scale has been developed in which the freezing point of water is 245oN and the boiling point of water is 677oN.
   1. What is the conversion factor to change N sized degrees into C sized degrees?
   2. Convert 37oC into oN.

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Quiz 1b (20 points) February 3, 2009

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1. (3 points) Write the correct IUPAC name for each of the following compounds
   1. TiBr3
   2. Ca(NO3)2
   3. (NH4)3P
2. (3 points) Write the correct chemical formula for each of the following compounds
   1. Chloric acid
   2. Trichlorine heptasulfide
   3. Cupric nitride
3. (7 points) For the year 2007, worldwide production of aluminum was 37.9 million metric tons (1 metric ton = 1000kg, density of aluminum = 2.70 g/cm3)
   1. How many pounds of aluminum were produced?
   2. What was the volume in cubic feet of this aluminum?
4. (7 points) A new temperature scale has been developed in which the freezing point of water is 315oN and the boiling point of water is 738oN.
   1. What is the conversion factor to change N sized degrees into C sized degrees?
   2. Convert 37oC into oN.