

# Non Sibi High School

Andover's Chem 300: Accelerated/Honors Chemistry

Chapter 2, Review Quiz 1

## 1

Convert the following:

- 0.040 milligrams neon to number of neon atoms
- $7.43 \times 10^{25}$  magnesium atoms to kilograms magnesium

## 2

The density of liquid  $\text{C}_2\text{H}_4(\text{NH}_2)_2$  is 0.90 g/mL. What is the volume in liters of  $1.08 \times 10^{26}$  molecules of  $\text{C}_2\text{H}_4(\text{NH}_2)_2$ ?

## 3

The density of solid  $\text{C}_{12}\text{H}_{22}\text{O}_{11}$  is 1.59 g/cm<sup>3</sup>. How many molecules are in 75 cm<sup>3</sup> of  $\text{C}_{12}\text{H}_{22}\text{O}_{11}$ ? How many carbon atoms are in this sample?



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