

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Per: \_\_\_\_\_

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Chemistry - 10/25/2013

## ***Moles & Conversions – 1 – Moles-Atoms***

### Converting Moles to Atoms

- To convert moles to atoms, multiply given by **Avogadro's Number** ( \_\_\_\_\_ / 1 mole )

$$\frac{1.50 \text{ mol C}}{1} = 9.03 \times 10^{23} \text{ atoms C}$$

Convert the following moles into atoms:

- 1.5 moles Al
  
- 0.535 moles Br
  
- 10.2 moles Au

### Converting Atoms to Moles

- To convert atoms to moles, multiply given by **1 mole / Avogadro's Number**

$$\frac{5.0 \times 10^{23} \text{ atoms C}}{6.022 \times 10^{23}} = 0.83 \text{ mol C}$$

Convert the following atoms into moles:

- $1.5 \times 10^{23}$  atoms C
  
- $2.5 \times 10^{23}$  atoms K
  
- $222.5 \times 10^{24}$  atoms Li