

Name: _____
Date: _____ Per: _____

Mr. Leal
Chem/Honors - 11/8/2013

Moles WS 2 – Moles-Grams

Converting Moles into Grams

- To convert moles into grams, multiply moles given by the **molar mass**:

$$\frac{2.0 \text{ mol C}}{1} = 24 \text{ g C}$$

Convert the following Moles into Grams:

1. 2.5 moles Al
2. 0.5 moles CO
3. 1.55 moles KNO₃
4. 0.000475 moles PbI₂
5. 1.039 mole CuCl₂
6. 125.95 mole Hydrogen gas
7. 1.45 x 10³ moles Carbon Tetrachloride
8. 0.00287 moles Cobalt(II) Nitrate

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Converting Mass into Moles

- To convert grams into moles, multiply grams given by **1 mole / molar mass**:

$$5.0 \text{ g C} \Big| \text{---} = 0.42 \text{ mol C}$$

Convert the following masses into Moles:

- 10.0 grams Al
- 18.02 grams H₂O
- 32.91 grams KNO₃
- 834.091 grams MgS
- 0.002378 grams oxygen gas
- 429.05 grams Glucose
- 5.25 x 10⁴ mg Calcium Chlorite
- 35.25 kg Silver Nitrate