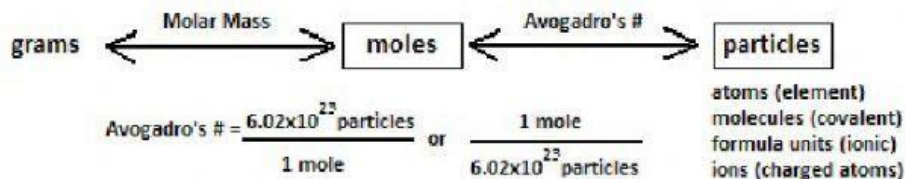


**Mole Conversions Worksheet (moles to particles or grams)**  
one step problems

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

**Directions:** Show ALL of your work. Make sure to include units!!!!

**Mole-Particle Conversions (use Avogadro's number for your conversions)**



1. How many **moles** of magnesium are in  $5.01 \times 10^{22}$  **atoms of magnesium**?

**Final Answer:**

2. How many **molecules** are there in **8.00 moles of glucose,  $C_6H_{12}O_6$** ?

**Final Answer:**

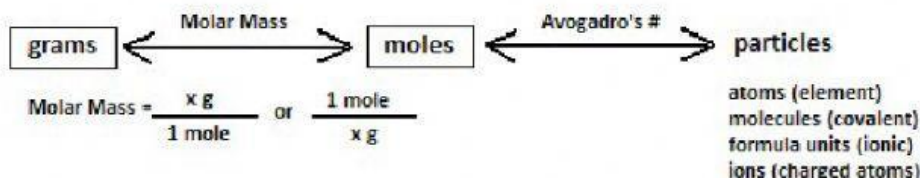
3. How many **moles** are  $3.20 \times 10^{25}$  **formula units of calcium iodide**?

**Final Answer:**

4. How many **formula units** are in **62.5 moles of calcium phosphate**?

**Final Answer:**

**Mole-Mass Conversions (use the molar mass from the periodic table for your conversions)**



1. How many **moles** are in **28 grams of  $CO_2$**  ?

**Final Answer:**

2. What is the **mass** of **5.0 moles of  $Fe_2O_3$**  ?

**Final Answer:**

3. Find the number of **moles** of **argon in 452 g of argon**.

**Final Answer:**

4. How many **grams** are in **3.45 moles of  $CO_2$** ?

**Final Answer:**