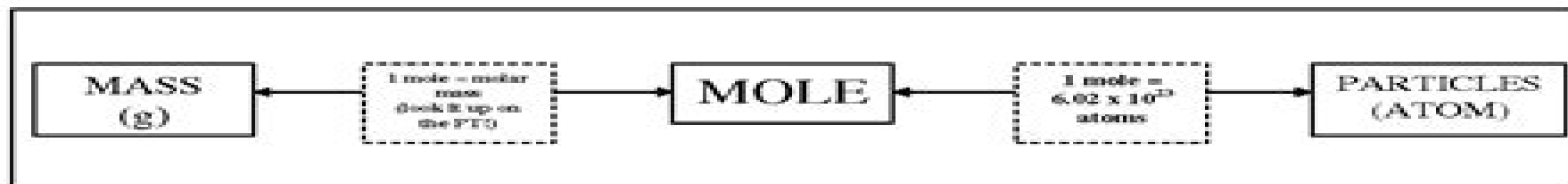


1 mole =  $6.02 \times 10^{23}$  atoms    1 mole = atomic mass (g)



### Two Step Problems:

1. What is the mass of  $2.25 \times 10^{25}$  atoms of lead?

$$\frac{2.25 \times 10^{25} \text{ atoms of lead}}{6.02 \times 10^{23} \text{ atoms}} \times \frac{1 \text{ mole}}{1 \text{ mole}} \times \frac{207.2 \text{ g}}{1 \text{ mole}} = 7744.19 \text{ g} = 7740 \text{ g}$$

2. How many atoms are in 10.0g of gold?

$$\frac{10 \text{ g gold}}{197.0 \text{ g}} \times \frac{1 \text{ mole}}{1 \text{ mole}} \times \frac{6.02 \times 10^{23} \text{ atoms}}{1 \text{ mole}} = 3.06 \times 10^{22} \text{ atoms}$$

### PRACTICE PROBLEMS:

1. How many moles are equal to 625g of copper?

$$\frac{625 \text{ g of copper}}{63.5 \text{ g Cu}} \times \frac{1 \text{ mole}}{1 \text{ mole}} = 9.77 \text{ mol Cu}$$

2. How many moles of barium are in a sample containing  $4.25 \times 10^{23}$  atoms of barium?

$$\frac{4.25 \times 10^{23} \text{ atoms of barium}}{6.02 \times 10^{23} \text{ atoms}} \times \frac{1 \text{ mole}}{1 \text{ mole}} = 0.706 \text{ mol}$$

3. Convert 2.35 moles of carbon to atoms.

$$\frac{2.35 \text{ moles}}{1 \text{ mole}} \times \frac{6.02 \times 10^{23} \text{ atoms}}{1 \text{ mole}} = 1.42 \times 10^{24} \text{ atoms}$$

4. How many atoms are in 4.0g of potassium?

$$\frac{4.0 \text{ g}}{39.1 \text{ g}} \times \frac{1 \text{ mole}}{1 \text{ mole}} \times \frac{6.02 \times 10^{23} \text{ atoms}}{1 \text{ mole}} = 6.2 \times 10^{22} \text{ atoms}$$

## Mole 8 Answer Key

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