

**#1**

Convert  
10.0 mol Cr  
into grams

**#2**

Convert  
72.0 g Ar  
into moles

**#3**

Convert  
 $4.81 \times 10^{14}$   
molecules of  $\text{NH}_3$   
into moles

**#4**

Convert  
1.24 mol  $\text{Cl}_2$  into  
molecules

**#5**

How many molecules are in 60.0 grams of  $\text{N}_2\text{O}$ ?

**#6**

What is the mass (in grams) of  $2.5 \times 10^{29}$  molecules of  $\text{Ca}(\text{OH})_2$ ?

**#7**

Convert 15.7 grams of Aluminum Chloride into moles

**#8**

How many milligrams are in 25 moles of water?

# #9

How many molecules are in 145 mg of CH<sub>4</sub>?

# #10

If the density of gold is  $19.3 \frac{g}{mL}$ , how many molecules of liquid gold would you have in 250 mL of gold?