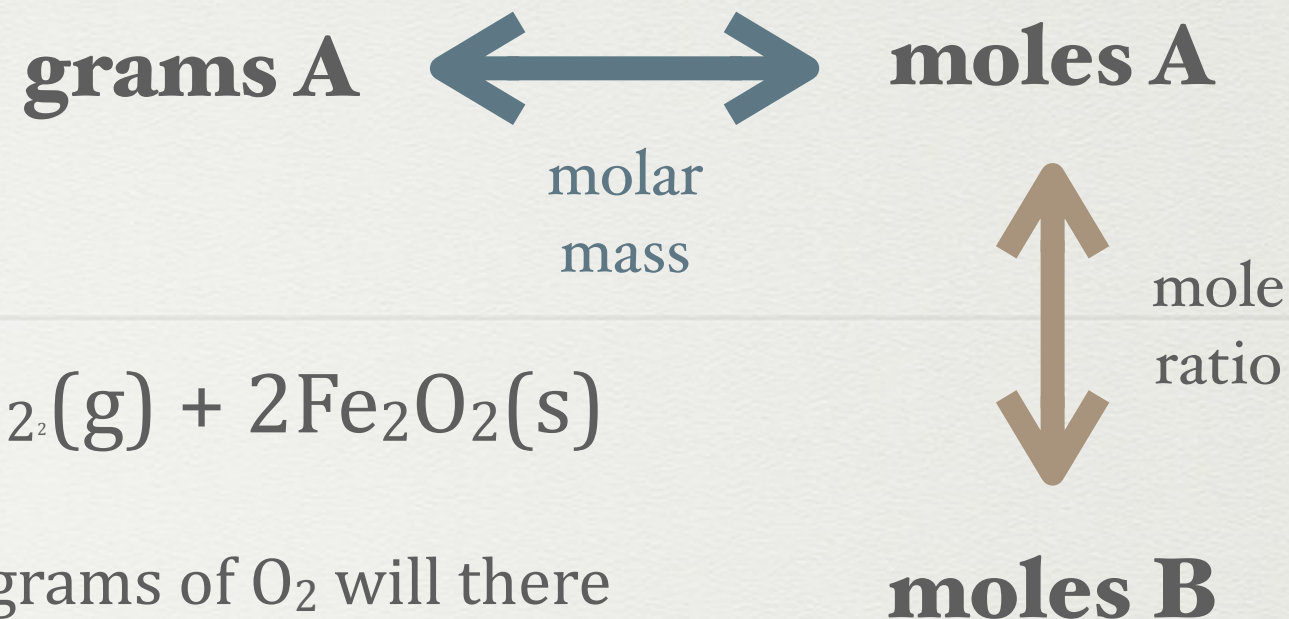


Warm Up 3/5/2015



- * For 4.2 moles of SO_2 , how many grams of O_2 will there be?

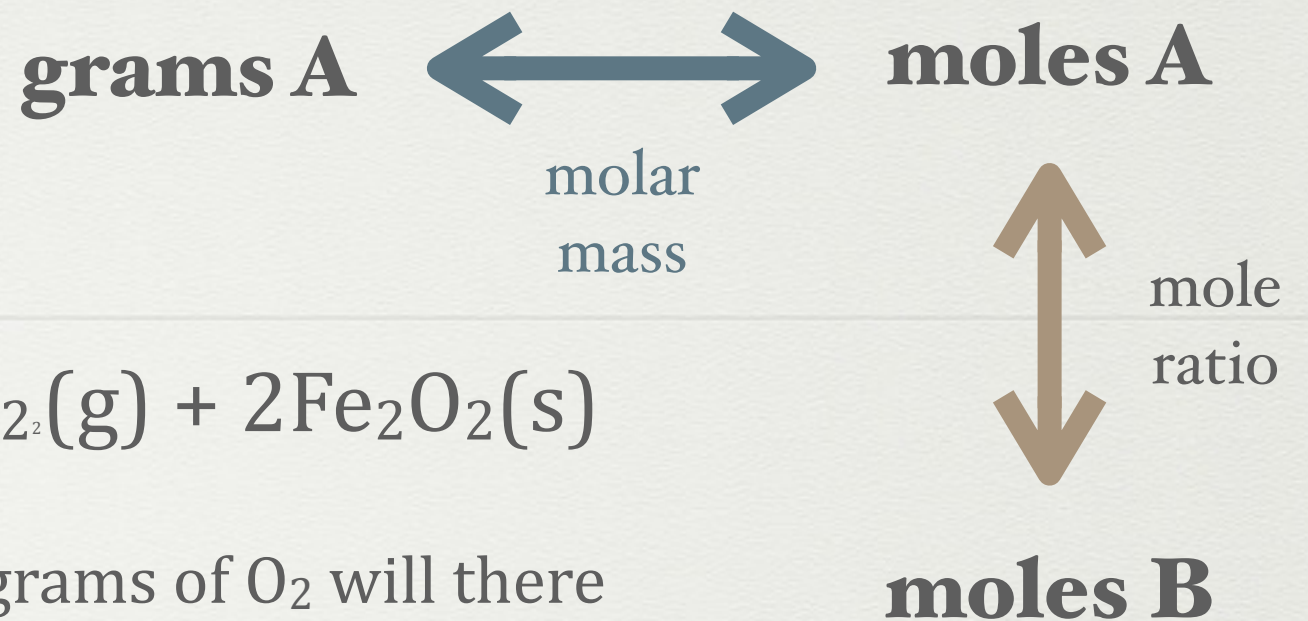


- * For 4.2 moles of SO_2 , how many grams of O_2 will there be?

Assess the problem:

What value is given?

What value are you solving for?



- * For 4.2 moles of SO_2 , how many grams of O_2 will there be?

Given: 4.2 moles of SO_2

Solving for: grams of O_2

Identify start and end points on map:

- Starting point is what's given.
- Ending point is what you are solving for.

? grams
 O_2



molar
mass

moles
 O_2



mole
ratio



* For 4.2 moles of SO_2 , how many grams of O_2 will there be?

4.2 moles
 SO_2

Setup your dimensional analysis

$$\begin{array}{c|c|c} 4.2 \text{ moles} & 6 & \text{moles} \\ SO_2 & & O_2 \\ \hline & 4 & \text{moles} \\ & & SO_2 \end{array} \times \begin{array}{c|c} 32 & \text{grams} \\ & O_2 \\ \hline 1 & \text{moles} \\ & O_2 \end{array} = ? \text{ grams } O_2$$