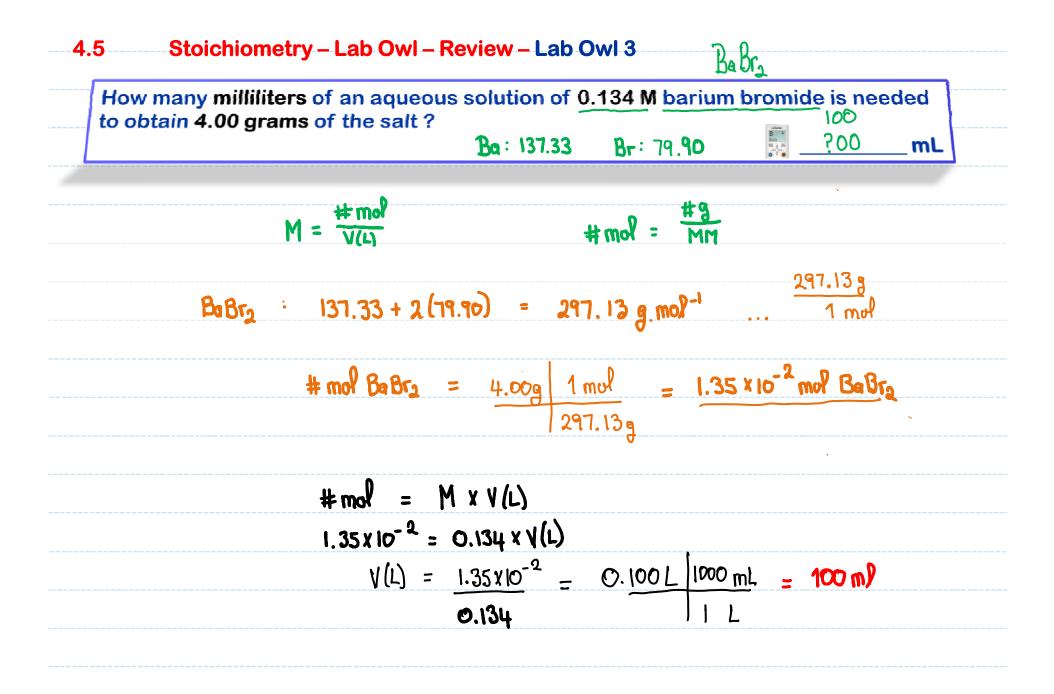
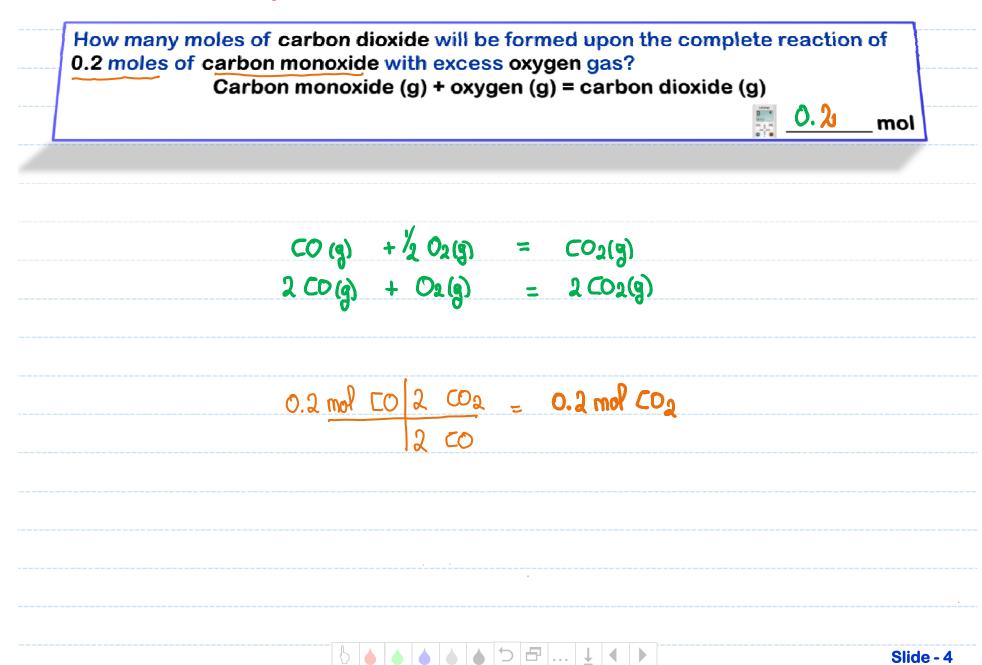
Class Announcements LAST LAB: Soturday Dec 3RD, 1:30-4:30 Exan III : Tuesday, Dec 6th, 12:45-2:15, IN class Review, Sunday, Dec 4th, 3:00-4:45 pm, ISB 135 FINAL EXAM : Tuesday, Dec 13th, 8:00-10:00gm, ISB 135 Review, Sunday, Dec 11th, 1:00-2:30 pm, ISB 135 $[b] | \bullet | \bullet | \bullet | \bullet | \bullet | \Box | \dots | \downarrow | \bullet | \bullet |$ Slide - 1

4.5 Stoichiometry – Lab Owl – Review – Lab Owl 3 In the laboratory you dilute 4.00 mL of a concentrated 3.00 M hydriodic acid solution to a total volume of 150 mL. What is the concentration of the dilute solution? 0.08 Μ $M = \frac{\# mol}{V(L)} \quad \text{or} \quad \# mol = M \times V(L)$ # mol HI = 3.00 × 0.004 = 1.20 × 10⁻² mol HI $\frac{\#\text{mol} \text{HI}}{V(L)} = \frac{1.20 \times 10^{-2}}{0.150}$ M = Ξ 0.08M





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Calcium hydroxide is standardized by titration with 0.320 M solution of nitric acid. If 38.5 mL of base are required to neutralize 23.4 mL of acid, what is the molarity of the calcium hydroxide solution?

<u>38.5 ml</u> 0.3	$3(9?) = C_{9}(NO_{3})_{2} + 2H_{2}D(9)$ 20M] 4 mL
$M = \frac{\# mol}{V(L)}; \# mol = M \times V(L)$	$C_{a}(OH)_{2}: M = \frac{\# mol C_{a}(OH)_{2}}{V(L)}$
$\#moP HNO_3 = 0.320 \times 0.0234 = 7.49 \times 10^{-3} moP$	$M = 3.74 \times 10^{-3}$ 0.0385
$7.49 \times 10^{3} \text{ mol} HNO_{3} C_{9}(OH)_{2} = 3.74 \times 10^{3} \text{ mol}$	= 0.0972
2 HNO3 Ga (OH)2	
Υ.	
$\mathbb{b} \mathrel{\blacklozenge} \mathrel{\bigstar} \mathrel{\bigstar} \mathrel{\bigstar}$	5 🗗 🛓 ◀ 🕨 Slide -

