## **Molarity Review**

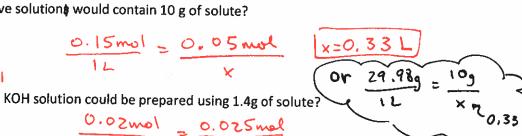
Name: Unswers.

Round to significant figures. Finish for homework. Finish for next class please. Will count towards a homework mark (done/not done)

1. What volume of a 0.15M CaBr<sub>2</sub> solution would contain 0.25 moles of solute?

2. What volume of the above solution would contain 10 g of solute?

$$\frac{1 \text{ mol} = 199.889}{\times 109}$$



3. What volume of a 0.02M KOH solution could be prepared using 1.4g of solute?

4. What mass of magnesium hydroxide is needed to make 4.0L of a 0.050M solution?

$$x = 11.666g \rightarrow 12g$$

5. What is the molarity of a solution in which 2.20g of carbon dioxide are dissolved in 150mL of solution?

$$\frac{0.050 \text{ mol}}{0.150 \text{ L}} = \frac{x}{1 \text{ L}} = \frac{0.3333 \text{ mol}}{1 \text{ Co}_2 \text{ J}} = 0.3333 \text{ Mol}$$

6. Find the resulting concentration of a solution made by mixing 40mL of 0.6M NaCl with 20mL of water.

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O.6 mol 
$$\times$$
 mol  $\times$  mol

7. How much water needs to be added to 4 0.9M H<sub>2</sub>SO<sub>4</sub> solution to dilute it to 0.5M?

$$C_1V_1 = C_2V_2$$
 7 80mL need to (0.9)(100) = (0.5)(V2) (0.08L)

8. Reach back to last year's lab exam .... How would you prepare 750 mL of a 0.5 M LiOH solution?

Imol = 23.95g X = 8.98g = 9g 0.275my × 9

- 2. Pour into a 750mL volumetric flack
- 3. Rinse beaker + sides of flash
- 4. Dilute to line
- 5 Swirl