Molarity:

- a _______ description of solution concentration.
- Abbreviated ______M

Problems: Show all work and circle your final answer.

 To make a 4.00 M solution, how many moles of solute will be needed if 12.0 liters of solution are required?

$$4.00 M = \frac{\text{moles of solute}}{12.0 L} \qquad \text{moles of solute} = \boxed{48.0 \text{ mol}}$$

How many moles of sucrose are dissolved in 250 mL of solution if the solution concentration is 0.150 M?

?
$$L = 250$$
 mb $\times \frac{1 L}{1000} = 0.25 L$
 $0.150 M = \frac{moles of solute}{0.25 L} = 0.038 mol$

3. What is the molarity of a solution of HNO₃ that contains 12.6 grams HNO₃ in 1.0 L of solution?

?
$$mol\ HNO_{_{2}} = 12.6\ _{_{3}}\ HNO_{_{7}}\ \times\ \frac{I\ mol\ HNO_{_{3}}}{63.0\ _{_{3}}\ HNO_{_{7}}} = 0.200\ mol\ HNO_{_{8}}$$

$$M = \frac{0.200\ mol\ HNO_{_{1}}}{I.0\ L} = \boxed{0.200\ M}$$

4. How many grams of potassium nitrate are required to prepare 0.250 L of a 0.700 M solution?

$$0.700 M = \frac{motes of solute}{0.250 L} \qquad motes of solute = 0.175 mol$$

$$2 g KNO_s = 0.175 mol KNO_r \times \frac{101.1 g KNO_s}{1 mol KNO_r} = \boxed{17.7 g KNO_s}$$

CHEMISTRY: A Study of Matter

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Robert C. Smoot, Smoot, Richard G. Smith, Jack Price

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