

# MOLALITY (m)

Name \_\_\_\_\_

$$\text{Molality} = \frac{\text{moles of solute}}{\text{Kg of solvent}}$$

Solve the problems below.

1. What is the molality of a solution in which 3.0 moles of NaCl is dissolved in 1.5 Kg of water?

2. What is the molality of a solution in which 25 g of NaCl is dissolved in 2.0 Kg of water?

3. What is the molality of a solution in which 15 g of I<sub>2</sub> is dissolved in 500. g of alcohol?

4. How many grams of I<sub>2</sub> should be added to 750 g of CCl<sub>4</sub> to prepare a 0.020 m solution?

5. How much water should be added to 5.00 g of KCl to prepare a 0.500 m solution?