Name	Date	Class
1101110	- Color	

## 15-2 Practice Problems

- What is the molarity of the solution produced when 145 g of sodium chloride (NaCl) is dissolved in sufficient water to prepare 2.75 L of solution?
- 7. What is the molarity of the solution produced when 14.1 g of ammonia (NH<sub>3</sub>) is dissolved in sufficient water to prepare 0.100 L of solution?
- How many grams of potassium chloride (KCl) are needed to prepare 0.750 L of a 1.50 M solution of potassium chloride in water?
- To prepare 10.5 L of a 2.50 M solution of potassium hydroxide (KOH), how many grams of potassium hydroxide must be used?
- 3. What is the molarity of the solution produced when 85.6 g of hydrochloric acid (HCl) is dissolved in sufficient water to prepare 0.385 L of solution?
- 9. What is the molality of a solution containing 75.2 g of silver perchlorate (AgClO<sub>4</sub>) dissolved in 885 g of benzene?
- 4. To produce 3.00 L of a 1.90 M solution of sodium hydroxide (NaOH), how many grams of sodium hydroxide must be dissolved?
- 10. What is the molality of a solid solution containing 0.125 g of chromium and 81.3 g of iron?
- If 8.77 g of potassium iodide (KI) are dissolved in sufficient water to make 4.75 L of solution, what is the molarity of the solution?
- If 18.6 g of methanol is used to dissolve 2.68 g of Hg(CN)<sub>2</sub>, what is the molality of the solution?
- 6. In order to prepare 2.00 L of a 3.00 M solution of ferric chloride (FeCl<sub>3</sub>), how many grams of ferric chloride must be used?
- 12. What is the molality of solid solder wire if it is made from 68.7 g of lead dissolved in 117 g of tin?