

Name _____

Henry's Law Worksheet

Apply Henry's Law to solve the following problems.
You may use the following formula:

$$\frac{S_1}{P_1} = \frac{S_2}{P_2}$$

S_1 is the solubility of gas at pressure P_1
 S_2 is the solubility of gas at pressure P_2

- (1) If 0.24 g of a gas dissolves in 1.0L of water at 1.5 atm of pressure, how much of the gas will dissolve if the pressure is raised to 6.0 atm? Assume the temperature is held constant.
- (2) A gas has a solubility of 0.086 g/L at a pressure of 3.5 atm. At what pressure would its solubility be 2.3 g/L?
- (3) The solubility of a gas changes from 0.95 g/L to 0.72 g/L. If the initial pressure was 2.8 atm, what is the final pressure?

