## Warm Up

What is the volume needed to dissolve 1.89 moles of solute making a 0.948M solution?

$$V = ?$$
 $N = 1.89 \text{ mol}$ 
 $C = 0.948 \text{ M}$ 
 $= 0.948 \text{ mol} \text{ L}$ 

## **Dilutions**

Dilution - process of decreasing the concentration of a solution by adding more solvent (normally water).

ally water).

$$C = \frac{n}{V}$$
 $N_i = N_F$ 
 $V_i C_i = V_F C_F$ 
 $N = V \times C$ 

## **Dilutions**

What would be the concentration of a solution after diluting 45.0 mL of 4.2 mol/L KOH to 250 mL?

## Sample Problems

How much 0.20 mol/L glucose solution can be made from 50. mL of 0.50 mol/L glucose solution?

Today's Assignment

Worksheet