

Ex. What volume of solution is required to dissolve 1.75 mol to make a 0.95 mol/L solution of CaCO<sub>3</sub>?

$$V=?$$
 $N=1.75mol$ 
 $C=0.95mol/L$ 
 $V=1.75mol$ 
 $O.95mol/L$ 
 $V=1.75mol$ 
 $O.95mol/L$ 
 $V=1.8 L$ 

Ex. A sample of laboratory ammonia solution has a concentration of 14.8 mol/L. What mass of ammonia is present in a 25.0 mL sample of this solution?

NH<sub>3</sub>

$$C = M.8 \text{mol/L}$$
 $m = ?$ 
 $V = 25.0 \text{mL}$ 
 $= 0.0250 \text{L}$ 
 $14.8 \text{mol/L} = M$ 
 $0.0250 \text{L}$ 
 $14.8 \text{mol/L} (0.0250 \text{L})$ 
 $16.37 \text{mol}$ 

## **Practice Problems**

p. 481 #8,9p. 483 #10,11Worksheet