

## WARM-UP

The Apple Store in Polo Park Mall has a total of 75 people in it at lunch time. Predict the number of people in the store if the following situations occur:

People Entering	People Leaving	People in Store
25	0	
10	30	
15	15	













## EXAMPLE 1

The balanced chemical equation for the synthesis of hydrogen fluoride gas from its elements is given below. Initially, the concentration of each reactant is 2.00 mol/L, and no product is present. At equilibrium, the  $[F_2(g)]$  is 0.48 mol/L. What would the equilibrium concentrations of the remaining substances be?

 $H_2(g) + F_2(g) \leftrightarrow 2 HF(g)$ 

