

CHAPTER 6	Calculating pH After Dilution	BLM 6.3.8
ASSESSMENT		

1. A 35.0 mL volume of a 0.489 mol/L solution of hydrochloric acid is diluted to a volume of 300 mL.
 - (a) What is the pH of the concentrated solution?
 - (b) What is the concentration of the diluted solution?
 - (c) What is the pH of the diluted solution?
 - (d) Compare your answers to (a) and (c). Considering the acid solution has been diluted, do your answers make sense?
2. A 20 mL volume of a 3.52×10^{-3} mol/L solution of nitric acid is diluted to a volume of 25 L. What is the pH of the diluted solution?

