

## Acid-Base Titrations & Stoichiometry

### Example One

How many mL of 0.45 M HCl acid must be added to 25.0 mL of 1.00 M KOH to neutralize the solution?

### Example Two

What is the molarity of nitric acid  $\text{HNO}_3$  if 15.0 mL of the solution is completely neutralized by 38.5 mL of 0.150 M NaOH?

### Example Three

A 25.0 mL solution of sulfuric acid is completely neutralized by 18 mL of 1.0 M LiOH. What is the concentration of the  $\text{H}_2\text{SO}_4$  solution?

#### Example Four

What is the molar mass of a monoprotic acid if 0.50 grams of the acid required 30.0 mL of 0.100 M NaOH to reach the equivalence point?