

- 1) If 45 mL of water are added to 250 mL of a 0.75 M  $\text{K}_2\text{SO}_4$  solution, what will the molarity of the diluted solution be?
  
  
  
  
  
  
  
  
  
  
- 2) If water is added to 175 mL of a 0.45 M KOH solution until the volume is 250 mL, what will the molarity of the diluted solution be?
  
  
  
  
  
  
  
  
  
  
- 3) How much 0.075 M NaCl solution can be made by diluting 450 mL of 9.0 M NaCl?
  
  
  
  
  
  
  
  
  
  
- 4) If 550 mL of a 3.50 M KCl solution are set aside and allowed to evaporate until the volume of the solution is 275 mL, what will the molarity of the solution be?
  
  
  
  
  
  
  
  
  
  
- 5) How much water would need to be added to 750 mL of a 2.8 M HCl solution to make a 1.0 M solution?