

## Dilutions Worksheet

- 1) If I add 25 mL of water to 125 mL of a 0.15 M NaOH solution, what will the molarity of the diluted solution be?
  
  
  
  
  
  
  
  
  
  
- 2) If I add water to 100 mL of a 0.15 M NaOH solution until the final volume is 150 mL, what will the molarity of the diluted solution be?
  
  
  
  
  
  
  
  
  
  
- 3) How much 0.05 M HCl solution can be made by diluting 250 mL of 10 M HCl?
  
  
  
  
  
  
  
  
  
  
- 4) I have 345 mL of a 1.5 M NaCl solution. If I boil the water until the volume of the solution is 250 mL, what will the molarity of the solution be?
  
  
  
  
  
  
  
  
  
  
- 5) How much water would I need to add to 500 mL of a 2.4 M KCl solution to make a 1.0 M solution?