## **Independent Practice**

4. You mix 700 mL of a 4 M with 500 mL of pure water. What is the new concentration?

2.15M

**Solutions** 

5. You mix 1450 mL of a 2.5 M solution & 100 mL of pure water. What is the new concentration?

2.34M

6. You mix 500 mL of a 4 M solution is diluted with 100 mL of pure water. What is the new concentration?

7. You mix 850 mL of a 2.5 M solution is diluted with 400 mL of pure water. What is the new concentration?

3,33M

**8.** A student has 345mL of a 1.5M NaCl solution. If the student boils the solution until the volume of the solution is 250mL, what will the molarity of the solution be?

1.7M

2.07M

9. How much water is needed to add to 500mL of a 2.4M KCl solution to make a 1.0M solution?

700ml uddel

**10.** How many milliliters of a stock solution of 1.00M NaOH would you need to prepare 500.0mL of 0.250M NaOH?

125ml needed