

**Chemistry 105**  
**Reaction Stoichiometry III - Solutions**

**Answers**

- 1) Add 50.3 grams of NaClO to a 1 L volumetric flask, then add water to dissolve and dilute to 1 L.
- 2) Add 21.0 g NaHCO<sub>3</sub> and 71.6 g Na<sub>2</sub>CO<sub>3</sub>•10H<sub>2</sub>O to a 5 L volumetric flask and dilute.
- 3) 6.15 X 10<sup>-3</sup> M
- 4) 5.64 X 10<sup>-6</sup> moles
- 5) 6.12 L
- 6) 10.1 mL
- 7) 20.2 mL
- 8) 6.63 X 10<sup>-2</sup> M  
mix 25 L of the 32:1 with 14 L of unmixed gasoline to give 39 L of 50:1  
2.1 % by weight
- 9) 3.39 X 10<sup>-3</sup> M
- 10) 0.336 g
- 11) 3.0 X 10<sup>2</sup> mL
- 12) a) 241 g aminomethane and 761 g phosphoric acid  
b) 2080 g  
c) 1.44 M
- 13) 5.083 mL
- 14) 9.21 X 10<sup>-2</sup> M