**Mini-quiz #17 Chemistry 1114 Monday 21 October 2013**

**6 pts**

**Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A**

**Given the reaction:**

**MW=** 36 27 123 2 g/mol

6HCl + 2Al -----🡪 2AlCl3 + 3H2

**SHOW WORK !!!**

1. How many grams of Al must react to form 0.5555 grams of H2 ?
2. How many molecules of HCl are needed to make 34.165 g AlCl3?

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**6 pts**

**Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b**

**Given the reaction:**

**MW=** 36 27 123 2 g/mol

6HCl + 2Al -----🡪 2AlCl3 + 3H2

**SHOW WORK !!!**

1. How many grams of Al must react to form 1.6666 grams of H2 ?
2. How many molecules of HCl are needed to make 102.495 g AlCl3?