**ASSIGNMENT ANALYTICAL CHEMISTRY 5.1**

1. Apply the *Q*-test to the following data set to determine whether the outlying result should be retained or rejected at the 95% confidence level.

7.295, 7.284, 7.388, and 7.292

2. In replicate analysis, the carbohydrate content of a glycoprotein is found to be 12.6, 11.9, 13.0, 12.7 and 12.5 g of carbohydrate per 100 g of protein. Find 50% and 90% confidence intervals for the carbohydrate content.