MTH 154, Quiz #5, Spring 2019   Name _____ KEY _____

Instructions: You must show all work to receive full credit for the problems below. You may use Excel where appropriate. Any datasets needed will be posted on Blackboard with the quiz file, and you should submit such work along with your quiz. Round answers to two decimal places unless other instructions are given in the problem.

1. In the file **154quiz5data.xlsx**, on Sheet 1 is data on buy category and time of day. Create a pivot table, and then create two different bar graphs: a) a cluster column graph, b) a stacked column graph of the table. Be sure to label it appropriately with a descriptive title. Write a one or two sentence summary of what each graph means. Explain how the graphs tell a slightly different story than the other one.

There are more people in the afternoon than in evening or morning. But the proportions of purchases in each category remain about the same.

2. A loan is made for 4 years of $10,000. If the interest on the loan is charged at 4% simple interest, how much interest is paid, and how much money must be paid back at the end of 4 years?

Interest = $1,600

Pay back = $11,600

3. A loan is made for 4 years of $10,000. If the interest on the loan is charged at 4% interest compounded annually, how much interest is paid, and how much money must be paid back at the end of 4 years?

Pay back = $11,698.59

Interest = $1,698.59