1) You go to a bank to acquire a mortgage of $ 375,000 with a 4.99% interest rate that runs for 30 years.

a) What will the monthly payments be to the bank?

b) How much in interest will you pay?

a) **If you deposit $4500 at 5.99 % interest compounded continuously, how much money will be in the account after 3 years and 5 months?**

3) **If you deposit an additional $ 1,000 in the same account in # 6) , how much MORE money will be in the account after 3 years and 5 months?**

4) How long, to the nearest tenth of a year, will it take for the original deposit to double?

5 **How much interest will you earn in 8 years if you invest $7500 at 4 ¼ % compounded semi-annually?**

6 **How much more interest will you earn if the same investment is put in an account at 4 ¼ % interest compounded continuously for 8 years?**