1. Brad invested $2,400 in an account that pays four percent compounded annually. How much will he have after 13 years? **Answer: $3996.18**
2. Sally invested $2,300 in a bond that pays 14% interest semi-annually. How long will it take for her investment to triple? **Answer: 8.12 years**
3. A certain material decays at a rate of 1.9% per year. The sample is 260 grams. How much will be left in 11 years? How long will it take to have only a 100g sample left?

**Answer: A) 210.96g B) 50.29 years**

1. A kettle full of water is brought to a boil in a room with temperature of 25 degrees Celsius. After 15 minutes the temperature of the water decreased from 100 degrees Celsius to 75 degrees Celsius. Find the temperature after 40 minutes.

**Answer: 50.44 degrees Celsius**

1. A kettle full of water is brought to a boil in a room with temperature of 30 degrees Celsius. After 10 minutes the temperature of the water decreased from 120 degrees Celsius to 70 degrees Celsius. Find the temperature after another 30 minutes.

**Answer: 33.51 degrees Celsius**

1. The half life of Cs-137 is 30.2 years.  If the initial mass of the sample is 1.00kg, how much will remain after 151 years? **Answer: 0.031kg**