



Name \_\_\_\_\_

# Compound Interest

Use the Compound Interest Formula to calculate the compound interest word problems:

NOTE: Interest Compounded Semi Annually

1. If a loan is taken out for \$302 at 7% compounded semiannually and costs \$95.68, how long was the loan for?
2. How much principal must be invested to earn \$227.30 in three years at an interest rate of 9% compounded semiannually?
3. What will the final balance be for \$237 invested at 6% compounded semiannually for five years?
4. If you invest \$992 at an interest rate of 3% compounded semiannually, how much money will you have after three years?
5. The cost of a loan for \$618 over five years is \$253.75 compounded semiannually. What was the rate on the loan?
6. You put \$292 into a savings account with an interest rate of 5% compounded semiannually which earns \$120.59 over a period of time. How long was the period of time?
7. What was the interest rate if your balance on an investment of \$273 at the end of three years is \$325.98 and the interest was compounded semiannually?
8. What was the interest rate if your balance on an investment of \$432 at the end of three years is \$546.62 and the interest was compounded semiannually?
9. How long must \$722 be invested at a rate of 5% compounded semiannually to earn \$249.01 in interest?
10. If you invest \$361 at an interest rate of 8% compounded semiannually, how much money will you have after three years?



# Compound Interest

Use the Compound Interest Formula to calculate the compound interest word problems:

NOTE: Interest Compounded Semi Annually

1. If a loan is taken out for \$302 at 7% compounded semiannually and costs \$95.68, how long was the loan for?  
**four years**
2. How much principal must be invested to earn \$227.30 in three years at an interest rate of 9% compounded semiannually?  
**\$752**
3. What will the final balance be for \$237 invested at 6% compounded semiannually for five years?  
**\$318.51**
4. If you invest \$992 at an interest rate of 3% compounded semiannually, how much money will you have after three years?  
**\$1,084.70**
5. The cost of a loan for \$618 over five years is \$253.75 compounded semiannually. What was the rate on the loan?  
**7%**
6. You put \$292 into a savings account with an interest rate of 5% compounded semiannually which earns \$120.59 over a period of time. How long was the period of time?  
**seven years**
7. What was the interest rate if your balance on an investment of \$273 at the end of three years is \$325.98 and the interest was compounded semiannually?  
**6%**
8. What was the interest rate if your balance on an investment of \$432 at the end of three years is \$546.62 and the interest was compounded semiannually?  
**8%**
9. How long must \$722 be invested at a rate of 5% compounded semiannually to earn \$249.01 in interest?  
**six years**
10. If you invest \$361 at an interest rate of 8% compounded semiannually, how much money will you have after three years?  
**\$456.78**