# Compound Interest

Use the Compound Interest Formula to calculate the compound interest word problems:
NOTE: Interest Compounded: Annually, Semi Annually, Quarterly or Monthly

1. If the balance at the end of two years on an investment of $7,157 that has been invested at a rate of 12% compounded quarterly is $9,066.27, how much was the interest?

2. How long must $7,428 be invested at a rate of 15% compounded annually to earn $3,869.06 in interest?

3. If you take out a loan that costs $2,228.60 over eight years at an interest rate of 3% compounded annually, how much was the loan for?

4. You put $1,874 into an investment at 8% compounded semiannually for five years. What will the balance be at the end of five years?

5. What was the interest rate if your balance on an investment of $2,469 at the end of five years is $4,045.74 and the interest was compounded quarterly?

6. What is the interest rate if a principal of $9,356 earns $763.45 in interest compounded annually in two years?

7. What was the interest rate if your balance on an investment of $2,081 at the end of one year is $2,411.15 and the interest was compounded quarterly?

8. If you put $3,700 into a savings account that earns 4% compounded annually, how much interest will you receive at the end of three years?

9. If a principal of $4,873 was invested at a rate of 10% compounded quarterly and terminates with a balance of $31,828.06, how long was the money invested for?

10. If you put $6,386 into a savings account that earns 9% compounded quarterly, how much interest will you receive at the end of one year?

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1. If the balance at the end of two years on an investment of $7,157 that has been invested at a rate of 12% compounded quarterly is $9,066.27, how much was the interest?

   $1,909.27

2. How long must $7,428 be invested at a rate of 15% compounded annually to earn $3,869.06 in interest?

   three years

3. If you take out a loan that costs $2,228.60 over eight years at an interest rate of 3% compounded annually, how much was the loan for?

   $8,354

4. You put $1,874 into an investment at 8% compounded semiannually for five years. What will the balance be at the end of five years?

   $2,773.98

5. What was the interest rate if your balance on an investment of $2,469 at the end of five years is $4,045.74 and the interest was compounded quarterly?

   10%

6. What is the interest rate if a principal of $9,356 earns $763.45 in interest compounded annually in two years?

   4%

7. What was the interest rate if your balance on an investment of $2,081 at the end of one year is $2,411.15 and the interest was compounded quarterly?

   15%

8. If you put $3,700 into a savings account that earns 4% compounded annually, how much interest will you receive at the end of three years?

   $462.00

9. If a principal of $4,873 was invested at a rate of 10% compounded quarterly and terminates with a balance of $31,828.06, how long was the money invested for?

   19 years

10. If you put $6,386 into a savings account that earns 9% compounded quarterly, how much interest will you receive at the end of one year?

    $594.43