

Compound Interest

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

- 1. How much interest is earned on \$103 at 5% compounded semiannually for three years?
- 2. If the balance at the end of eight years on an investment of \$903 that has been invested at a rate of 4% compounded semiannually is \$1,239.63, how much was the interest?
- 3. How much principal must be invested to earn \$158.81 in five years at an interest rate of 5% compounded semiannually?
- 4. You take out a loan for \$501 at an interest rate of 7% compounded semiannually for one year. What is the total amount that you will have at the end of the one year?
- 5. What will the final balance be for \$601 invested at 3% compounded semiannually for four years?
- 6. If you put \$739 into a savings account and after six years the balance is \$1,327.14, what was the interest rate if it was compounded semiannually?
- 7. What was the interest rate if your balance on an investment of \$780 at the end of six years is \$1,112.09 and the interest was compounded semiannually?
- 8. If a loan is taken out for \$177 at 5% compounded semiannually and costs \$28.27, how long was the loan for?
- 9. If an investment over seven years at a rate of 10% compounded semiannually results in a final balance of \$1,267.16, what was the original investment?
- 10. Your final balance on an investment of \$414 invested at 3% compounded semiannually was \$452.69. For what period of time did you invest?



Compound Interest

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

1.	How much interest is earned on \$103 at 5% compounded semiannually for three years?
	\$16.45
2.	If the balance at the end of eight years on an investment of \$903 that has been invested at a rate of 4% compounded semiannually is \$1,239.63, how much was the interest?
	\$336.63
3.	How much principal must be invested to earn \$158.81 in five years at an interest rate of 5% compounded semiannually?
	\$567
4.	You take out a loan for \$501 at an interest rate of 7% compounded semiannually for one year. What is the total amount that you will have at the end of the one year?
	\$536.68
5.	What will the final balance be for \$601 invested at 3% compounded semiannually for four years?
	\$677.02
6.	If you put \$739 into a savings account and after six years the balance is \$1,327.14, what was the interest rate if it was compounded semiannually?
	10%
7.	What was the interest rate if your balance on an investment of \$780 at the end of six years is \$1,112.09 and the interest was compounded semiannually?
	6%
8.	If a loan is taken out for \$177 at 5% compounded semiannually and costs \$28.27, how long was the loan for?

three years

9. If an investment over seven years at a rate of 10% compounded semiannually results in a final balance of \$1,267.16, what was the original investment?

\$640

10. Your final balance on an investment of \$414 invested at 3% compounded semiannually was \$452.69. For what period of time did you invest?

three years