
Use compound interest to solve the following.

1. If a principal of \$719 was invested at a rate of 5% compounded semiannually and terminates with a balance of \$1,067.36, how long was the money invested for?

2. If you borrow \$754 for four years at an interest rate of 6% compounded semiannually, how much interest will you pay?

3. If a principal of \$836 was invested at a rate of 6% compounded semiannually and terminates with a balance of \$1,059.02, how long was the money invested for?

4. At what rate was an investment made that obtains \$81.82 in interest compounded semiannually on \$222 over four years?

5. If you take out a loan that costs \$917.22 over seven years at an interest rate of 10% compounded semiannually, how much was the loan for?

6. If you put money into a savings account that earns \$86.85 over two years at a rate of 6% compounded semiannually, how much money did you put into the account?

7. If you put \$840 into a savings account that earns 9% compounded semiannually, how much interest will you receive at the end of five years?

8. The cost of a loan for \$620 over seven years is \$256.04 compounded semiannually. What was the rate on the loan?

9. If you received \$476.76 on \$556 invested at a rate of 7% compounded semiannually, for how long did you invest the principal?

10. The cost of a loan for \$586 over one year is \$35.69 compounded semiannually. What was the rate on the loan?
