

Use compound interest to solve the following.

1. What will the final balance be for \$198 invested at 9% compounded weekly for six years?  
\$339.61
2. \$348.42 is earned on funds invested at a rate of 10% compounded weekly over three years. What was the amount of the original investment?  
\$997
3. What was the interest rate if your balance on an investment of \$329 at the end of three years is \$418.16 and the interest was compounded weekly?  
8%
4. You take out a loan for \$576 at an interest rate of 8% compounded weekly for two years. What is the total amount that you will have at the end of the two years?  
\$675.86
5. If you put \$931 into a savings account that earns 8% compounded weekly, how much interest will you receive at the end of three years?  
\$252.31
6. If a principal of \$681 was invested at a rate of 5% compounded weekly and terminates with a balance of \$1,067.79, how long was the money invested for?  
nine years
7. If a principal of \$758 was invested at a rate of 4% compounded weekly and terminates with a balance of \$889.47, how long was the money invested for?  
four years
8. The cost of a loan for \$974 over six years is \$507.97 compounded weekly. What was the rate on the loan?  
7%
9. If a loan is taken out for \$688 at 9% compounded weekly and costs \$390.58, how long was the loan for?  
five years
10. If you received \$100.64 on \$431 invested at a rate of 7% compounded weekly, for how long did you invest the principal?  
three years